



Hyde Park VM 30 Ultrasonic Sensor  
with Discrete Output



HTM Metal Head  
Proximity Switch



APD4380  
Field Selectable  
Isolated DC to DC Transmitter

New Large Current Capacity  
Models Now Available



NK Technologies  
AC or DC Current Transmitters



Hardy Weigh Scale Plug-in Modules  
and Modular EIP Weighing System



MTS High Accuracy Float-Style  
Level Transmitters



ACR SmartReader Dataloggers



Jowa USA Level Products



Cecomp  
DigMax Pressure Gauge

*FREE review  
of your application  
at your facility*












**864-848-3993**

[www.traskinstrumentation.com](http://www.traskinstrumentation.com)



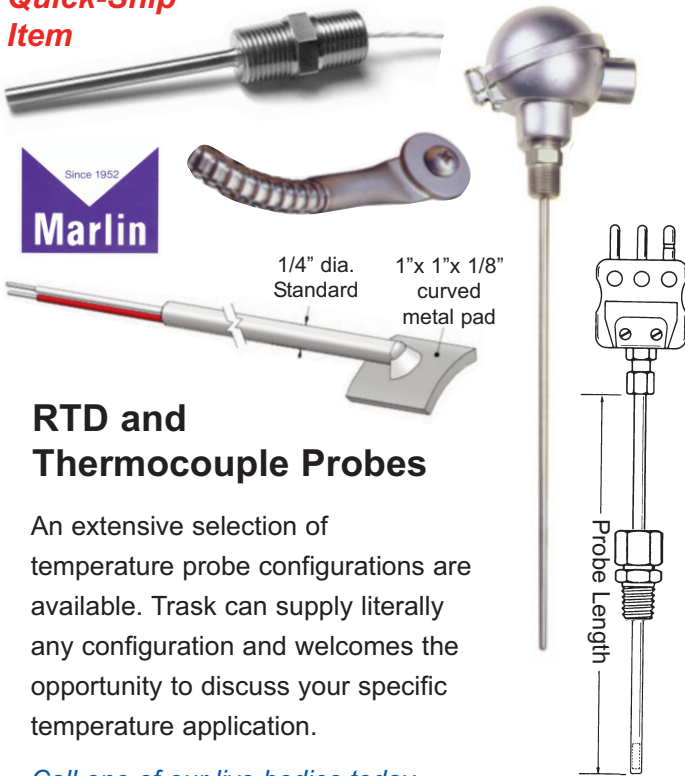
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*If you do not see what you need in this catalog, call us.*

**Quick-Ship Item**



## RTD and Thermocouple Probes

An extensive selection of temperature probe configurations are available. Trask can supply literally any configuration and welcomes the opportunity to discuss your specific temperature application.

*Call one of our live bodies today.*

## Ashcroft BiMetal Thermometer



### Key Features:

- Rigid or every angle mounts
- All-welded stainless steel construction
- $\pm 1\%$  full-span accuracy
- Hermetically sealed
- Heavy-duty glass standard; plastic or shatterproof glass optional. Series EL has durable polycarbonate window.
- Silicone on coil provides vibration dampening and superior time response
- Limited five-year warranty

*Call with your application needs today.*

Product Website:

[www.ashcroft.com/products/thermometers/bimetal/index.cfm](http://www.ashcroft.com/products/thermometers/bimetal/index.cfm)

TEMPERATURE



## ThermoPro™ 2-Wire Loop-Powered Indicating Temperature Transmitters with Temperature Probe

### Key Features:

- Precision Temperature Element, platinum RTD
- Integral NEMA 4X Housing
- Analog 4-20 mA Output, loop powered
- 316 Stainless Steel Probe, different lengths available
- 1/2" NPT Fitting for Standard Thermowells

Product Website:

[www.cecomp.com/cecomp\\_thermopro.php](http://www.cecomp.com/cecomp_thermopro.php)



## Miniature & Standard Size, Plugs, Jacks

### Key Features:

- Installed from the rear; snap in place
- Easily removed
- Each circuit numbered, lettered, color coded to ANSI standards
- Withstands ambient temperature to 400°F (205°C) continuous, 500°F (260°C) intermittent; high temperature panels withstand 800°F (425°C) continuous, 1000°F (540°C) intermittent

Product Website:

[www.marlinmfg.com/ConstripMain.html](http://www.marlinmfg.com/ConstripMain.html)



### Rotary Thermocouple or RTD Switch or Analog Signals Switch



#### Key Features:

- 2 - 40 positions
- "zero" position
- Silverplated contacts with self-cleaning wiper
- Panel mount
- Screw terminal connections

Product Website:

[www.marlinmfg.com/products/connectorsStripanels/selectSwitch.html](http://www.marlinmfg.com/products/connectorsStripanels/selectSwitch.html)

### Hand-Held Battery Operated Temperature Instruments



#### Key Features:

- Thermocouple or RTD input, J, K, T, E, N, B, R, S, G, C, D
- Pushbutton deg F or C
- 9 Volt battery operation
- 0.1 or 1.0 degree resolution
- Hold temperature, pushbutton



Product Website:

[www.marlinmfg.com/products/instruments/instruCalib.html](http://www.marlinmfg.com/products/instruments/instruCalib.html)

— OR —



AC or DC  
Powered Meter  
**IN STOCK**



### Raytek CI Compact Infrared Temperature Sensor

#### Key Features:

- Type J or K, or 0-5 V output
- Two models cover temperature ranges from 0°C to 500°C (32°F to 932°F)
- IP 65 (NEMA-4) stainless steel electronics housing
- 4:1 Optics at 90% energy
- 350 mSec (95%) response time
- Powered by 12-24 Vdc at 20 mA
- Accessories for cooling and air purging available

Product Website:

[www.support.fluke.com/raytek-sales/Download/Asset/3111440\\_0000\\_ENG\\_G\\_W.PDF](http://www.support.fluke.com/raytek-sales/Download/Asset/3111440_0000_ENG_G_W.PDF)



### Raytek MI 2-Piece Infrared Temperature Transmitter

#### Key Features:

- Small Sensing Head fits where others can't
- Outputs: 4-20 mA, 0-5 Vdc, J or K T/C
- 5-Digit backlit LCD display, inside for user setup
- Adjustable emissivity, Peak Hold, Valley Hold and Averaging Functions
- 1% Accuracy from -40°C to 600°C (140°F to 1112°F)
- Optics: 2:1, 10:1, 20:1 spot size

Product Website:

[www.support.fluke.com/raytek-sales/Download/Asset/3111626\\_6252\\_ENG\\_H\\_W.PDF](http://www.support.fluke.com/raytek-sales/Download/Asset/3111626_6252_ENG_H_W.PDF)

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## Averaging Temperature Probe with Transmitter for Duct Applications

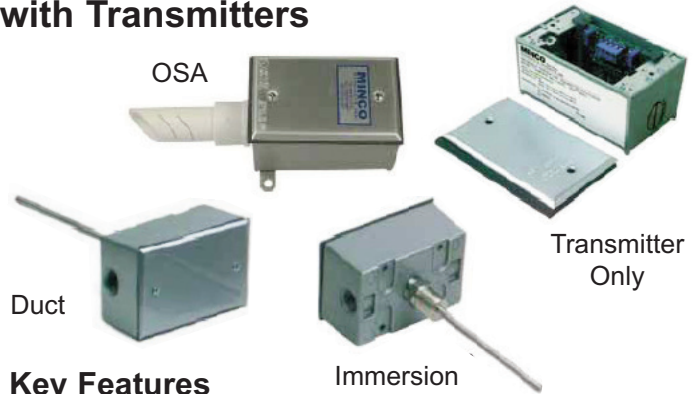


**IN STOCK  
ITEM**

### Key Features

- $1000\Omega \pm 0.25\%$  @ 32° F (0° C)
- Output: 4-20 mA, 2-wire system
- Continuous resistance over bendable length, 10 ft.
- Accurate over a large duct area
- -40° to 240° F (-40° to 115° C) range; other spans available
- Weatherproof sensor housing
- Noninteracting zero/span adjustment
- Substitute for discontinued HyCal transmitters

## HVAC Temperature Sensors with Transmitters

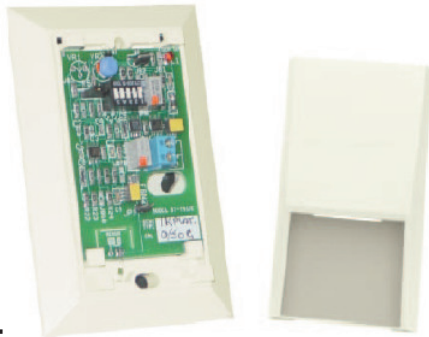


### Key Features

- One-point field calibration
- Output: 4-20 mA, 2-wire system
- Weatherproof sensor interface housing
- Noninteracting zero/span adjustment
- Functional equivalent to HyCal HCT-809

*Call with your application needs today.*

## Space Mount Temperature Sensor



### Key Features:

- High accuracy  $\pm 0.5^\circ$  F
- Output: 4-20 mA, 2-wire
- No-drift platinum RTD sensor
- Loop calibration test signal
- $\pm 0.1$  F or 0.2% of span
- Decorative enclosure
- Loop-powered LED indication
- CE approved (commercial and industrial)
- 18-month warranty

## Low Cost Software Configurable RTD & Thermocouple Transmitter

**IN STOCK  
ITEM**



### Key Features:

- 4-20 mA two-wire loop powered signal transmitter
- PT100 Ohm RTD inputs
- TC inputs K, J, R, S, T, N, E, B
- Standard handibox mounting
- Two, three and four-wire RTD wiring input
- Software calibrated, for temperature span
- Functional equivalent to HCT-801 and HCT-807

*Call to discuss your application needs.*



## Humidity & Temperature Transmitters



### Low Cost Relative Humidity Transmitters

#### Key Features:

- Advanced Ceramic Sensor Technology
- Outputs 4-20 mA, or 0-5 Vdc
- Able to fully recover from condensation
- Maintain accuracy over a longer period of time
- Field calibration capability
- Calibrated at 3 different points using NIST Traceable Temperature/Humidity Chamber
- Two-year factory warranty

*Available in Space, Duct, OSA Configuration*



### Low Cost Relative Humidity & Temperature Transmitters

#### Key Features:

- Advanced Ceramic Sensor Technology
- Outputs 4-20 mA, or 0-5 Vdc for both RH and temperature
- Able to fully recover from condensation
- Maintain accuracy over a longer period of time
- Field calibration capability
- Calibrated at 3 different points using NIST Traceable Temperature/Humidity Chamber
- Two-year factory warranty

HMD60  
or 70



### 60/70 Series Duct & Wall-Mount Humidity & Temperature Transmitters for HVAC / EMCS

#### Key Features:

- Full 0...100 %RH measurement
- Transmitters with 4-20 mA loop powered output (HMD60 and HMW60)
- Temperature compensated
- Excellent long term stability
- Up to  $\pm 2\%$  RH accuracy

Product Website:

[www.vaisala.com/en/products/humidity/Pages/HMD6070.aspx](http://www.vaisala.com/en/products/humidity/Pages/HMD6070.aspx)

HMW90



### HMW90 Series Analog Humidity and Temperature Transmitters for High Performance HVAC Applications

#### Key Features:

- Easy installation, configuration, and field adjustment
- Vaisala HUMICAPR 180<sup>®</sup> Sensor with superior long-term stability
- Humidity parameter options: relative humidity, dew point, mixing ratio, enthalpy, wet bulb temperature, dew point depression, and absolute humidity
- Full 0 - 100% RH measurement range
- Up to  $\pm 1.7\%$  RH accuracy
- Special output scaling available
- One relay (voltage output models only)
- User exchangeable humidity and temperature module
- NIST traceable calibration (certificate included)

Product Website:

[www.vaisala.com/en/products/humidity/Pages/HMW90.aspx](http://www.vaisala.com/en/products/humidity/Pages/HMW90.aspx)

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## HMT 330 Series Humidity and Temperature Transmitters for Industrial Applications



### Key Features:

- Six models for demanding industrial applications
- Full 0 - 100% RH measurement, temperature range up to +180°C (+356°F), depending on model
- Pressure tolerance up to 100 bar (depending on model)
- Excellent performance in harsh chemical concentrations
- NIST traceable (certificate included)

Product Website:

[www.vaisala.com/en/products/humidity/Pages/HMT330.aspx](http://www.vaisala.com/en/products/humidity/Pages/HMT330.aspx)

## HM40 Hand Held Relative Humidity and Temperature Meter for Spot-Checking Applications



### Key Features:

- Ideal for spot checking humidity temperature levels
- Humidity measurement range 0 - 100%RH
- Operating temperature measurement range -10 to +60°C (14 to +140°F)
- Interchangeable HMP 113 probe
- NIST traceable (certificate included)
- Hold button to freeze the screen
- Can also be user calibrated (using the HMK15 humidity calibrator, for example)

Product Website:

[www.vaisala.com/en/products/humidity/Pages/HM40.aspx](http://www.vaisala.com/en/products/humidity/Pages/HM40.aspx)

## Vaisala DM70 Handheld Dewpoint Meter



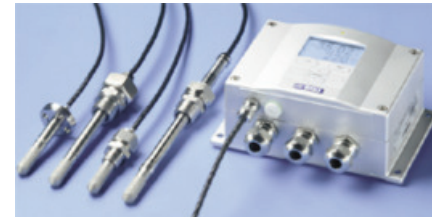
### Key Features:

- Designed for industrial spot-checking and field calibration
- Three models: accurate measurement ranges from -60 to +60 °C (-76 to +140 °F)
- Vaisala DRYCAP® Sensor with patented auto calibration function
- Low maintenance need due to superior long-term stability
- Sensor withstands condensation
- Fast response, enhanced by Sensor Purge option
- Easy-to-use user interface
- Data can be logged and transferred to a PC via MI70 Link software
- Compact, small and light
- NIST traceable (certificate included)

Product Website:

<http://www.vaisala.com/Vaisala%20Documents/Brochures%20and%20Datasheets/DM70-Datasheet-B010162EN-D-LoRes.pdf>

## DMT340 Series Dewpoint and Temperature Transmitters for Low Dewpoint Applications



### Key Features:

- Measures dewpoints from -60 °C to +80 °C (-76 ... +176 °F) with the accuracy of ±2 °C (±3.6 °F)
- Vaisala DRYCAP® Sensor provides accurate, reliable measurement with excellent long-term stability and fast response
- Withstands condensation
- Unique auto-calibration feature
- Optional alarm relays, local display and main power supply module
- Compatible with Vaisala DRYCAP® Hand-Held Dewpoint Meter DM70
- NIST traceable (certificate included)
- 3 analog outputs and a serial interface

Product Website:

[www.vaisala.com/en/products/dewpoint/Pages/DMT340.aspx](http://www.vaisala.com/en/products/dewpoint/Pages/DMT340.aspx)

**High Temp  
RH Transmitters**



**Key Features:**

- 100% replacement for discontinued Hy-cal transmitters
- Sensor: Hy-Cal capacitive monolithic IC
- Output: two-wire, 4-20 mA = 0% to 100% RH
- Accuracy:  $\pm 2\%$  from 5 % to 90% RH
- Sensor Ambient Temperature:  
Operating:  $-10^{\circ}$  to  $150^{\circ}\text{F}$  ( $-23^{\circ}$  to  $65^{\circ}\text{C}$ )  
Duct/OSA:  $-10^{\circ}$  to  $185^{\circ}\text{F}$  ( $-23^{\circ}$  to  $85^{\circ}\text{C}$ )
- Optional temperature output available. Call Trask

**Explosion-Proof**

Class I, Divisions 1 and 2,  
Groups A, B, C, D



Class II,  
Divisions 1 and 2,  
Groups E, F, G

Class III, Divisions 1 and 2

**HT880 Series Humidity and  
Temperature Transmitter**

**Key Features:**

- Output: 4-20 mA = 0-100% RH  
Optional: 4-20 mA = temperature range
- RH Sensor, thin film capacitive element  
Optional: temperature,  $1000\Omega$  platinum RTD, 385 curve
- Accuracy:  $\pm 2.5\%$  RH from 10 to 80% RH  
Includes hysteresis, linearity, repeatability and all temperature and voltage effects
- Response time: 50 seconds in slow-moving air

Product Website:

[www.kele.com/Catalog/09%20Hazardous%20Locations/PDFs/HT880%20Series%20Catalog%20Page.pdf](http://www.kele.com/Catalog/09%20Hazardous%20Locations/PDFs/HT880%20Series%20Catalog%20Page.pdf)



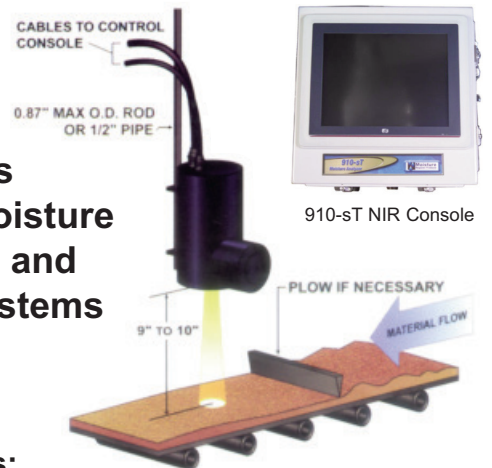
**Quick-Ship  
Item**

**Dew Point,  
Enthalpy & Wet Bulb Transmitters**

**Key Features:**

- Dew Point Accuracy of  $\pm 1.8^{\circ}\text{F}$  ( $\pm 1^{\circ}\text{C}$ ) over the normal range
- Two 4-20 mA output signals, moisture/temperature
- Microprocessor-based signal processing
- Weather resistant duct / OSA mounting
- One-point RH calibration with EASYCAL
- Temperature compensated

**Continuous  
On-Line Moisture  
Monitoring and  
Control Systems**



**Key Features:**

- Noncontact measurement
- Continuous Moisture Sensing
- Compact, easy to install, with 4-20 mA output
- Accuracy:  $\pm 0.1\%$
- Simplified, no-adjust optics
- RF Sensor technology also available



Product Website:

[www.aquameasure.com/continuous.htm](http://www.aquameasure.com/continuous.htm)

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## Ultrasonic SM300 Series Extended-Range Proximity Sensors

### Key Features:

- Outputs: NPN, PNP
- Self-contained, 12 mm, threaded barrel or flat-pack
- Extended sensing range of 102 mm (4")
- Field programmable capability, (SC series)
- Will detect all material: metal, paper, glass, film
- Repeatability  $\pm 0.07$  mm (0.027") or better

Product Website:

[www.traskinstrumentation.com/pdf/hyde\\_park/sm300.pdf](http://www.traskinstrumentation.com/pdf/hyde_park/sm300.pdf)



## Ultrasonic SM600 Series Medium Range Proximity Sensors

### Key Features:

- High resolution 500 kHz ultrasonic frequency
- Outputs: NPN, PNP
- Sensing range to 14"
- Fast response - as fast as 1.5 ms sampling rate
- Self-contained, 18 mm barrel or flat-profile housing
- Field programmable capability in 18 mm and flat-profile models
- DeviceNet capability available in flat-profile models

Product Website:

[www.traskinstrumentation.com/pdf/hyde\\_park/sm600.pdf](http://www.traskinstrumentation.com/pdf/hyde_park/sm600.pdf)

ULTRASONICS

## Single Discrete Model SC/SM 950 Series SUPERPROX® Ultrasonic Sensors



### Key Features:

- Sensing ranges:  
1 m (2" to 39"),  
2 m (4" to 79"), 8 m (8" to 26')
- **Single** discrete output models, NPN, PNP
- Reliable Detection with any target material, transparent or opaque, plastic, glass, metal
- Easy push-button setup
- Self-contained, 30 mm barrel, in either ULTEM® Plastic or SS303 stainless steel housing
- NEMA 4X, IP 67 rated, can handle most harsh environments
- Field programmable capability
- DeviceNet capability
- **Application Configurable**

**IN STOCK ITEMS**

Product Website:

[www.traskinstrumentation.com/pdf/hyde\\_park/sm900.pdf](http://www.traskinstrumentation.com/pdf/hyde_park/sm900.pdf)

## Dual Discrete Model SC/SM 952 Series SUPERPROX® Ultrasonic Sensors



### Key Features:

- Sensing ranges:  
1 m (2" to 39"),  
2 m (4" to 79"), 8 m (8" to 26')
- **Dual** discrete output models, NPN, PNP
- Reliable Detection with any target material, transparent or opaque, plastic, glass, metal
- Easy push-button setup
- Self-contained, 30 mm barrel, in either ULTEM® Plastic or SS303 stainless steel housing
- NEMA 4X, IP 67 rated, can handle most harsh environments
- Field programmable capability
- DeviceNet capability
- **Application Configurable**

**IN STOCK ITEMS**

Product Website:

[www.traskinstrumentation.com/pdf/hyde\\_park/sm902.pdf](http://www.traskinstrumentation.com/pdf/hyde_park/sm902.pdf)

**Analog  
Model SC/SM  
956 Series  
SUPERPROX®  
Ultrasonic Sensors**



**Key Features:**

- Sensing ranges:  
1 m (2" to 39"),  
2 m (4" to 79"), 8 m (8" to 26')
- Analog output models, 4-20 mA, 0-10 Vdc
- Reliable Detection with any target material, transparent or opaque, plastic, glass, metal
- Easy push-button setup
- Self-contained, 30 mm barrel, in either ULTEM® Plastic or SS303 stainless steel housing
- NEMA 4X, IP 67 rated, can handle most harsh environments
- Field programmable capability
- DeviceNet capability



**IN STOCK  
ITEMS**

Product Website:  
[www.traskinstrumentation.com/pdf/hyde\\_park/sm906.pdf](http://www.traskinstrumentation.com/pdf/hyde_park/sm906.pdf)

**Push Button  
Configurable**

**VM1  
Ultrasonic  
Proximity  
Sensor**



**Analog or  
Discrete  
Output**

**Key Features:**

- Sensing range of 50.8 mm (2") up to 508 mm (20")
- Dual-mount flat-profile body style and 18 mm barrel
- Sinking (NPN) or a sourcing (PNP) output available
- Rugged duty design
- Simple remote pushbutton accessory available for teaching of sensing limits
- NEMA 4X, IP67
- CE certified

Product Website for Analog Output:  
[www.traskinstrumentation.com/pdf/hyde\\_park/VM\\_Analog.pdf](http://www.traskinstrumentation.com/pdf/hyde_park/VM_Analog.pdf)

Product Website for Discreet Output:  
[www.traskinstrumentation.com/pdf/hyde\\_park/VM\\_Proximity.pdf](http://www.traskinstrumentation.com/pdf/hyde_park/VM_Proximity.pdf)

**Push Button  
Configurable**

**VM 30 Ultrasonic  
Proximity Sensor**



**Analog or  
Discrete  
Output**

**Key Features:**

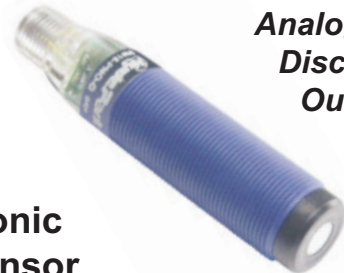
- Sensing range of 50.8 mm (2") up to 975 mm (39")
- Dual-mount flat-profile body style and 18 mm barrel
- Sinking (NPN) or a sourcing (PNP) output available
- Rugged duty design
- Simple remote pushbutton accessory available for teaching of sensing limits
- NEMA 4X, IP67
- CE certified

Product Website for Analog Output:  
[www.traskinstrumentation.com/pdf/hyde\\_park/VM\\_Analog.pdf](http://www.traskinstrumentation.com/pdf/hyde_park/VM_Analog.pdf)

Product Website for Discreet Output:  
[www.traskinstrumentation.com/pdf/hyde\\_park/VM\\_Proximity.pdf](http://www.traskinstrumentation.com/pdf/hyde_park/VM_Proximity.pdf)

**Push Button  
Configurable**

**VM18 Ultrasonic  
Proximity Sensor**



**Analog or  
Discrete  
Output**

**Key Features:**

- Sensing range of 50.8 mm (2") up to 508 mm (20")
- Dual-mount flat-profile body style and 18 mm barrel
- Sinking (NPN) or a sourcing (PNP) output available
- Rugged duty design
- Simple remote pushbutton accessory available for teaching of sensing limits
- NEMA 4X, IP67
- CE certified

Product Website for Analog Output:  
[www.traskinstrumentation.com/pdf/hyde\\_park/VM\\_Analog.pdf](http://www.traskinstrumentation.com/pdf/hyde_park/VM_Analog.pdf)

Product Website for Discreet Output:  
[www.traskinstrumentation.com/pdf/hyde\\_park/VM\\_Proximity.pdf](http://www.traskinstrumentation.com/pdf/hyde_park/VM_Proximity.pdf)

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Available in 1.5" and 2.0" Tri-clamp



**IN STOCK ITEM**

## Model K1 Pressure Transmitters and KS Sanitary Transmitters

### Key Features:

- Repeatability:  $\pm 0.07\%$  F.S.
- Outputs: 4-20 mA, 0.1-10 Vdc, 1-5 Vdc
- **K1 Pressure ranges: Vac - 20,000 psi**
- **KS Pressure ranges: Vac - 1,000 psi**
- FM and UL options available
- Superior long-term stability and repeatability
- Stainless steel NEMA 4X enclosure
- Wide range of electrical and process connections available

Product Website:

[www.ashcroft.com/products/upload/AshPT-1.pdf](http://www.ashcroft.com/products/upload/AshPT-1.pdf)

## Inches of Water Transmitters



### Key Features:

- Accuracy: 0.25% to 1.0%, depending on model
- Media: clean, dry, non-corrosive gas - NOT FOR USE ON LIQUIDS (other models available)
- Sensing Ranges  
Unidirectional Ranges: 0.1 to 200 inches H<sub>2</sub>O  
Bidirectional Ranges:  $\pm 0.05$  to  $\pm 100$  inches H<sub>2</sub>O
- Overpressure Limits:  
Proof: 15 psid to 20 psid, Burst: 25 psid to 50 psid  
Max static line pressure: 25 psi to 100 psi

Product Website:

[www.ashcroft.com/products/pressure\\_transducers\\_transmitters/low/index.cfm](http://www.ashcroft.com/products/pressure_transducers_transmitters/low/index.cfm)

PRESSURE



**IN STOCK ITEM**

## T2 Pressure Transmitter

### Key Features:

- Repeatability:  $\pm 0.07\%$  F.S.
- Outputs: 4-20 mA, 0-10 Vdc, 1-5 Vdc, 1-6 Vdc
- **Ranges 30 psi through 20,000 psi plus compound ranges 30 psi & VAC to 300 psi & VAC**
- Broad temperature capability, -40° to 125°C
- All welded pressure construction
- Proven polysilicon thin film sensor
- Precision ASIC based electronics

Product Website:

[www.ashcroft.com/products/pressure\\_transducers\\_transmitters/high/upload/AshT2.pdf](http://www.ashcroft.com/products/pressure_transducers_transmitters/high/upload/AshT2.pdf)

### Ranges:

5 - 10,000 psi



## A2 High Accuracy Pressure Transmitter

### Key Features:

- Choice of 1.0% , 0.5% or 0.25% TEB accuracy
- Outputs: 4-20 mA, 0-10 Vdc, 0-5 Vdc
- **Pressure ranges from 5 psi through 10,000 psi**
- 17-4 pH and 316L SS sensors available
- 304 SS case in standard, welded or explosion-proof construction
- FM, UL, CSA and ATEX listings available

Product Website:

[www.ashcroft.com/products/pressure\\_transducers\\_transmitters/high/upload/AshA2-1-3.pdf](http://www.ashcroft.com/products/pressure_transducers_transmitters/high/upload/AshA2-1-3.pdf)



**ASHCROFT**

**Handheld LCD  
Digital Calibrator  
Type ATE-100  
Pressure, Temperature,  
Voltage and Current  
Measurement**



**Key Features:**

- Interchangeable pressure and temperature modules
- Pressure measurement accuracies of  $\pm 0.025$ , 0.05 and 0.10%
- **Pressure ranges from 0.25 in. H<sub>2</sub>O to 10,000 psi**
- Supports most standard RTD probes and thermocouples
- Min/max, tare, flow, leak, programmable damping, percent function, trip detect, all standard
- High static DP measurement capability

Product Website:

[www.ashcroft.com/products/test\\_instruments/indicators/Type-ATE-100-Calibrator.cfm](http://www.ashcroft.com/products/test_instruments/indicators/Type-ATE-100-Calibrator.cfm)



**GP50 Level,  
Pressure and  
Temperature Transmitters**

**Key Features:**

- 0-5 thru 0-20,000 psi. ranges
- mV/V, VDC or 4-20mA outputs.
- Alternate electrical & process connections available
- All stainless steel construction
- High accuracy: 0.2%, 0.5%, 1.0%
- Flush to tank wall installation on some models
- Process connections: NPT, Tri-clamp
- 3A approved

Product Website: [www.gp50.com/](http://www.gp50.com/)

**Ashcroft Pressure Gauge Family**



*Ashcroft has a wide range of pressure gauges to meet your application needs. Call for specific information*

Product Website:

[www.ashcroft.com/products/pressure\\_gauges/industrial/index.cfm](http://www.ashcroft.com/products/pressure_gauges/industrial/index.cfm)

**Mounting  
Bracket  
Included**



**High Proof  
Pressure  
for Protection**

**M230 Series  
Differential Pressure Transmitter  
for Wet/Wet and Dry Applications**

**Key Features:**

- 0.25% accuracy
- NEMA 4 (IP65) protection
- Stainless Steel wetted parts, elastomer seals
- **Ranges: 0 - 1.0 psid to 100 psid,  $\pm 0.5$  -  $\pm 50.0$  psid**
- Maximum line pressure 250 psig ( 1723.8 kPa)
- Output: 4-20 mA, 2-wire or 0 - 5, 0 - 10VDC
- Operating temperature: 0° to 175°F (-18° to 79°C)
- Connections: 1/4-18 FNPT

Product Website:

[www.traskinstrumentation.com/pdf/M230.pdf](http://www.traskinstrumentation.com/pdf/M230.pdf)

***If you do not see what you need in this catalog, call us.***

***Phone: (864) 848-3993 • (864) 848-9569 • E-mail: [mike@traskinst.com](mailto:mike@traskinst.com)***



Product Website: [www.cecomp.com/](http://www.cecomp.com/)

PRESSURE

## Gauge Types

- Battery Powered
- Intrinsically Safe FM Approved
- Low Voltage Powered
- Vacuum System
- 2-wire Loop Powered
- Pressure to Current
- 4-wire Analog Output
- Alarms/Switches
- Alarms/Switches with Analog Output

## Key Features:

- 316 Stainless Steel Wetted Parts
- Pressure, Vacuum, Absolute or Compound Ranges
- Battery Life up to 2500 hours
- NEMA 4X
- FM approved / Intrinsically Safe
- Configurable Engineering Units (Depends on Model)
- Proven Stability & Reliability

## Pressure Ranges

- Full vacuum to 5000 psi

## Power

- 8 - 24 volts AC
- or 9 - 32 volts DC
- 2-wire loop powered

## Accuracy

- $\pm 0.25\%$  FS standard
- $0.1\%$  FS optional

## Output Signals

- 4 - 20 mA, 2-wire
- Relay(s)
- 0 - 2 VDC
- $\pm 2$  VDC

- Portable & Rugged Test Gauge
- 4 or 8 Memory Locations
- Class I, Division 1, Groups A - D
- NIST Traceable Certificates Available
- Multi-channel memory storage



**Not Affected  
By Foam or  
Agitation**



**JOWA USA  
Level Gauging  
Probes Using  
Hydrostatic Head Pressure**

**Key Features:**

- Excellent in water, wastewater, and chemicals
- No moving parts; nothing to wear out
- Output: 4-20 mA, 2 wire loop powered
- High reliability, virtually maintenance free
- Easy to install from tank top; no need to empty tank
- Unaffected by agitation, foam, vapors.
- Calibration remains stable and drift-free
- Intrinsically safe for use in hazardous areas

Product Website:  
[www.jowa-usa.com/Metritape.htm#Product\\_Selection](http://www.jowa-usa.com/Metritape.htm#Product_Selection)

**MetriSonic Ultrasonic  
Level Transmitter  
from JOWA Consilium  
Model MS-30**



**Key Features:**

- Level monitoring to 30 ft. (9.1m)
- Output: 4-20 mA, 2 wire, loop powered
- Accuracy  $\pm 0.15\%$  of sensor range
- NEMA 4X, IP65 rated
- Level or open channel flow monitoring
- FM approved intrinsically safe
- Simple set-up via built-in display, PC software, or HART communicator
- Two-line, 7-digit LCD display
- Automatic tank profiling - automatically ignores most internal obstructions
- HART configurable

Product Website:  
[http://koboldusa.com/sites/default/files/product\\_files/n2gb\\_ngm.pdf](http://koboldusa.com/sites/default/files/product_files/n2gb_ngm.pdf)

LEVEL

**PT30 Series  
Submersible  
Pressure Transmitter  
from JOWA Consilium**



**Key Features**

- Any depth well O.K.
- All welded stainless steel or titanium construction resists corrosion in demanding applications
- 4-20mA output, 2-wire loop powered
- Accuracy:  $\pm 0.25\%$  or  $\pm 0.1\%$  FS (available)
- Excellent stability
- PT-30 Series titanium sensor approvals: FM, CSA intrinsically safe, CE marked
- Rugged cable and reliable cable seal for years of dependable service

*Made for continuous operation under water*

Product Website:  
[www.jowa-usa.com/Pressure\\_Cells.htm](http://www.jowa-usa.com/Pressure_Cells.htm)

**NGM - Guided  
Wave Radar Level  
Transmitter**



**Key Features:**

- Measuring Range: Liquids up to 65 Feet
- Wetted Parts: St. Steel, PTFE
- Process Connection: 3/4" NPT, G 3/4, ANSI Flange 1 1/2" to 4", DIN Flange DN40 to DN100
- Operating Pressure: -30"Hg...580 PSIG (-1...+40 Bar)
- Media Temperature: -58...485°F (-50...+250°C)
- Accuracy:  $\pm 3$  mm or 0.03% of Measured Value
- Power Supply: 12-30 VDC, 4-Wire
- Output: 4-20 mA, PNP Switching Output

Product Website:  
[http://koboldusa.com/sites/default/files/product\\_files/n2gb\\_ngm.pdf](http://koboldusa.com/sites/default/files/product_files/n2gb_ngm.pdf)

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Phone: (864) 848-3993 • (864) 848-9569 • E-mail: [mike@traskinst.com](mailto:mike@traskinst.com)***

## Dry Solids Level Transmitters

### SmartBob II - Smarter, Tougher, Cost-effective Inventory Measurement System



#### Key Features:

- Stronger, more robust mechanical design for difficult applications
- Output: 4-20 mA
- New sleek, strong, and lightweight molded polypropylene housing
- Enhanced electronics for expanded diagnostics and communications capabilities
- No field calibration adjustment
- Powerful Windows-based PC program
- Measurement range to 150 feet
- Two year warranty

Product Website:

[www.binmaster.com/resources/dyn/files/1068244zc2b74f11/\\_fn/SmartBob\\_Brochure.pdf](http://www.binmaster.com/resources/dyn/files/1068244zc2b74f11/_fn/SmartBob_Brochure.pdf)

## MTS High Accuracy, Float-Style Level Transmitters



#### Key Features:

- Not affected by dielectric constant
- Not affected by changes in atmosphere conditions
- Measure liquid level, NOT foam level
- Maintain linearity regardless of temperature change
- Can measure product level, interface level, and temperature through one opening
- Does not require recalibrating
- Deliver the highest accuracy and provide high repeatability, +/-1.0 mm

Product Website:

[www.mtssensors.com/products/liquid-level-transmitters/index.html](http://www.mtssensors.com/products/liquid-level-transmitters/index.html)

## 3-D Level Scanner

### Multiple Point Bin Volume and Level Measurement



#### Key Features:

- Performs in extreme levels of dust
- Continuous and non-contact measurement
- Measures uneven powder or solid material surfaces
- Detects cone up, cone down and sidewall buildup
- Provides minimum, maximum and average distances
- Calculates highly accurate bin volume
- Communications include 4-20/HART, Modbus RTU, TCP/IP and RS-485
- Measuring range up to 200 feet
- Self-cleaning with minimal maintenance
- Low frequency acoustical signal to penetrate dust

Product Website:

[www.binmaster.com/resources/dyn/files/1068284z6e02001d/\\_fn/3D\\_Technical\\_Data.pdf](http://www.binmaster.com/resources/dyn/files/1068284z6e02001d/_fn/3D_Technical_Data.pdf)

## Vibrating Rod Point Level Sensors for Dry Products



### Single blade design eliminates bridging

#### Key Features:

- Single "Rod" probe design
- VR21 Probe length 7.57"
- VR41 Probe length 13", max. 13'
- VR51 Probe length 19", max. 19'
- Strong stainless steel construction
- Detects extremely light, fluffy material:
- No calibration required
- Three sensitivity adjustments
- Wear and maintenance-free
- Switch selectable high/low fail-safe
- High temperature & remote electronics units available
- Suitable for high & low level indication, or plugged chute detection



Product Website:

[www.binmaster.com/Vibrating/vibindex.html](http://www.binmaster.com/Vibrating/vibindex.html)

**Low Cost Level Switches for Liquid**

NCS-5161  
Sidemount  
Switch



NKP Series



NCS-1074  
Small Size

**Key Features:**

- Excellent chemical resistance, call / application
- Small size, easy installation
- N/O or N/C user selectable
- Gas encapsulated reed switch
- NEMA protection, plus many more configurations
- Cost effective
- Ideal for tanks with inaccessible top, bottom or side
- Virtually maintenance free, long operating life
- All wetted parts 316 SS

Product Website:

[www.koboldusa.com/products/level/level-monitoring](http://www.koboldusa.com/products/level/level-monitoring)

**Sage Direct Reading Mass Flow Meters for Dry Gas**



*Thermal Mass  
Inline Style*



*Insertion  
Style*



**Available  
for Rent**

**Key Features:**

- Measure any dry gas, ie: natural gas, air, nitrogen
- Displays **flow rate, total** and **gas temperature** simultaneously
- Rangeable over a range of 100 to 1, as high as 1000 to 1
- No moving parts, easy installation
- Output: 4-20 mA, and Pulses, model dependent
- Capable of up to 4 totally independent channels in one meter

Product Website: [www.sagemetering.com/](http://www.sagemetering.com/)

FLOW / FLOAT

**Alicat Low-Flow Mass Flow Meters and Flow Controllers for Dry Gas Applications**



**Key Features:**

- Field selectable 30+ different gas capability
- Flow ranges from 0.5 SCCM to 3000 SLPM F.S.
- 0-10 Vdc or 4-20 mA outputs
- 100:1 Turndown ratio
- Response time under 10 milliseconds, field adjustable
- "Tare" feature has capability to "zero" unit at any time
- RS-232 input/output
- Small footprint: 2.37"x1.050" through 4.00"x1.60"
- Also measures pressure, temperature
- Optional remote display/electronics for hot applications

Product Website: [www.alicat.com/](http://www.alicat.com/)

**FX Series Flow Thermal Switches**



**Liquid or  
Dry Gas**

**Key Features**

- No Moving Parts
- 316L Stainless Steel Sensor
- Temperatures to 900F
- Pressures to 10,000 PSIG
- Simple and Easy Field Calibration
- Explosion Proof Enclosures
- Low/high Flow Rate Detection
- Threaded, Flanged, Retractable Probes
- Exotic Alloys for Corrosion Resistance
- Field Programmable for Relay Energization

Product Website: [www.ameritrol.com/](http://www.ameritrol.com/)

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*In-line  
electromagnetic  
flowmeter*



*Analog Output  
Pulse Output  
Dual Relay  
Output*

## 6600 Series Magma Meter with Integral or Remote Display

### Key Features:

- Ease of installation and maintenance: grounding rings not required, no moving parts, low-fouling, will work on PVC pipe
- Accuracy:  $\pm 0.5\%$  of flow rate for sizes 1/2" - 12"  $\pm 1.0\%$  of flow rate for sizes 14" - 24"
- Repeatability:  $\pm 0.1\%$  of full scale
- Does not affect process conditions: negligible pressure drop across flowmeter
- Output: 4 - 20 mA, Pulses and Dual Relay

Product Website:

[www.traskinstrumentation.com/pdf/aaliant\\_mag\\_meter.pdf](http://www.traskinstrumentation.com/pdf/aaliant_mag_meter.pdf)

## Mass Coriolis Flow Meters (ACM) - Liquids



### Low Flow Range Mass Coriolis Meters

### Key Features:

- Flow ranges 300 to 3,000 Kg/Hr
- 316 stainless steel tubes
- Accuracy  $\pm 0.5\%$  of reading
- Pressure rating up to 5,000 psi
- Local or remote transmitters
- Measures flow, density and temperature

Product Website: [www.tricorflow.com/home.html](http://www.tricorflow.com/home.html)



## JV-KG Series Positive Displacement Flow Meter for Liquids

### Key Features:

- Flow ranges 0.003 to 120.0 GPM
- Accuracy  $\pm 0.5\%$  of reading
- Repeatability:  $\pm 0.1\%$  FS
- Pressure rating up to 5000 PSI
- Economical cost
- Aluminum, 303 and 316 SS bodies
- Pulse, mA and voltage outputs available
- Bi-directional flow capabilities

Product Website: [www.awgarmeters.com/main.html](http://www.awgarmeters.com/main.html)



Sizes:  
3/8" to 10"



B2800  
Flow  
Monitor

## Model 1100 Series Turbine Flowmeter With or Without Display

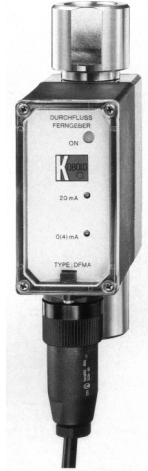
### Key Features:

- Flow ranges 0.6 to 5,000 GPM
- Output: Analog or pulse
- Accuracy  $\pm 1\%$  of actual flow
- Repeatability:  $\pm 0.1\%$  FS
- Pressure rating up to 5000 PSI
- 316 stainless steel body
- Easy maintenance design
- Available with Integral Electronics or Remote Electronics for flow rate or total indication



Product Website: [www.blancett.com/1100\\_TFM.php](http://www.blancett.com/1100_TFM.php)

**Inline Paddle Wheel Flow Transmitter w/4-20mA Output**



**Key Features:**

- Flow Ranges: 0.02 GPM to 36 GPM (different models)
- Power Supply: 24 VDC, (110 VAC, 230 VAC)
- Analog output: 0-20 mA, 4-20 mA, 0-5 VDC or 0-10 VDC
- Media: Clean fluids
- Temperature range: -10 to 180°F
- Cable: 5 ft., integral

Product Website:

[www.koboldusa.com/products/rotating-vane-flowmeter-and-switches/df-ma-paddle-wheel-flow-transmitter](http://www.koboldusa.com/products/rotating-vane-flowmeter-and-switches/df-ma-paddle-wheel-flow-transmitter)

**Low Cost Liquid Flow Switch**

PPS Switch



**Key Features:**

- Bidirectional operation
- Maximum Temperature 225°F
- Easy to install, 1" NPT
- Low cost
- Low pressure drop
- Dry contact output
- Blade trimmed for different pipe sizes

FPS Switch:

[www.koboldusa.com/products/paddle-type-flowmeter-and-switches/fps-insertion-paddle-bellows-flow-switch-liquids](http://www.koboldusa.com/products/paddle-type-flowmeter-and-switches/fps-insertion-paddle-bellows-flow-switch-liquids)

PPS Switch:

[www.koboldusa.com/products/paddle-type-flowmeter-and-switches/pps-plastic-paddle-flow-switch](http://www.koboldusa.com/products/paddle-type-flowmeter-and-switches/pps-plastic-paddle-flow-switch)

FLOW



**4100 CoolGuard**

**Weber Thermal Flow Switch or Transmitter for Dry Media**



**Key Features: Cool Guard**

- No moving parts; easy to install
- Maximum process temperature: -20 to 80°C
- Water and Water-based liquids
- Low cost flow & temperature switch
- Fixed set points for flow and temp i.e. 70DegC - 30cm/s
- Pipe connection: 1/2" BSP or NPT

**Key Features: Weber Thermal Flow Switch**

- Simple to install
- No moving parts
- Output: NPN, PNP or Analog 4-20mA
- 4 measurement ranges up to 5 m/s, 10 m/s, 20 m/s, 30 m/s velocity ranges

Liquid Switch: <http://www.captor.com/pl/home&c=10#>

Dry Gas Switch: [www.webersensorsinc.com/vent-captor\\_insertion\\_air\\_flow\\_switch.html](http://www.webersensorsinc.com/vent-captor_insertion_air_flow_switch.html)

**PSR - Paddle Flow Switch for Liquids**



- Switch Point Adjustable
- Easy to Install
- Brass or SS Construction
- Low Cost

Fits pipe sizes 1/4" to 1 1/2" with TEE provided

Fits pipe sizes 2" to 8" with TEE provided by customer

**SPECIFICATIONS**

**Switching range:** 0.9-1.3 GPM, 9.2-15 GPM water

**Material:** brass or SS

**Max. pressure:** Brass: 1450 PSIG; SS: 3600 PSIG

**Max. temperature:** 230°F

**Contact:** Reed switch SPST, N/O, or N/C - field configurable

**Contact Housing:** Polyamid, glass reinforced, NEMA 4

**Maximum Contact Ratings:** 50 VA, (50 watt, 250 VAC, 1.5 A)

**Cable:** PVC

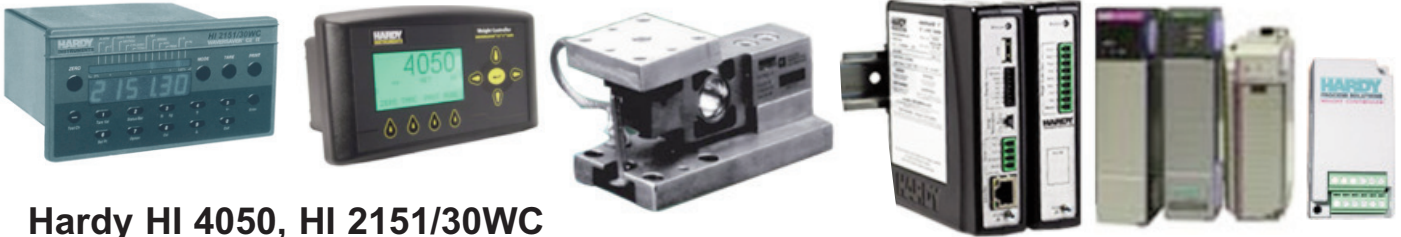
**Standard Cable Length:** 5 ft.

**Maximum Flow:** 5x switching range increasing

Product Website: [www.koboldusa.com/products/flow/paddle-type-flowmeter-and-switches](http://www.koboldusa.com/products/flow/paddle-type-flowmeter-and-switches)

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**Phone: (864) 848-3993 • (864) 848-9569 • E-mail: [mike@traskinst.com](mailto:mike@traskinst.com)**



**Hardy HI 4050, HI 2151/30WC  
Weight Controllers and Load Cell**

**Key Features:**

- EtherNet/IP, RIO, Analog, Serial RS232, DeviceNet, Modbus TCP/IP and Profibus, Digital I/O
- WAVERSAVER®, Integrated Technician® (IT)
- Secure Memory Module (SMM)
- Load cells IP68 rated
- C2®, electronic second generation calibration
- On-board certs
- Standard 1/4" NPT conduit adapter
- 200% safe overload limit

**Hardy Weigh Scale Modules plus  
Rate Control for:**

**Key Features:**

- Plugs directly into AB, PLC rack - True front insertion and removal, speeds initial system assembly
- Waversaver® technology ignores vibration
- C2® electronic second generation, pushbutton calibration - calibrates without test weights
- Integrated Technician®
- Secure Memory Module (SMM)

- Compact Logix
- Micro Logix 1500
- Control Logix
- SLC 500
- Micro 800
- 600 Series



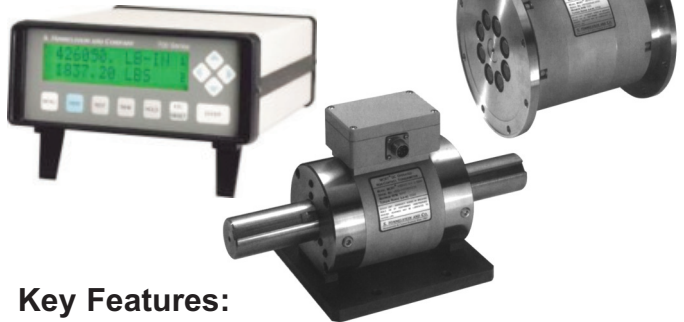
Product Website: [www.hardysolutions.com/products](http://www.hardysolutions.com/products)

**Load Cells Come in  
Many Different  
Configurations**



Other load cell systems besides those shown above are available. Call to discuss your application specifications.

**Torque Transmitters**



**Key Features:**

- Ranges from: 10 ozf-in. to 4,000,000 lbf-in.
- 2X, 4X, 10X overload capability
- Accuracy from .1% to .03% full scale
- Outputs 4-20mA, ±5 VDC, ±10VDC, and RS232
- Shaft and flanged units
- Ferrite-free rotary transformer design
- Immunity to machinery magnetic fields
- Bi-directional operation includes stall torque

*Call to discuss your application*

Product Website: [www.himmelstein.com](http://www.himmelstein.com)

LOAD CELLS / WEIGHT / TORQUE

The Absolute Process Signal Conditioner Product Family

DIN Mount Models

DC Alarm Trip



APD 1080  
APD 1090

Isolated Potentiometer to DC Transmitter



APD 4008

Strain Gage Transmitter



APD 4059

DC to DC Isolated Transmitter



APD 4380

Frequency to DC Transmitter



APD 7580

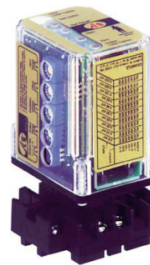
Plug-in Models



API 1080 G  
API 1090 G



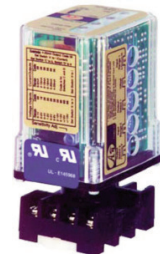
APD 4008 G



API 4059 G



API 4380 G



API 7580 G

Two Channel Isolated Transmitter



APD 2000  
DIN Mount

INPUT TYPES:

- AC Input
- DC Input Alarm
- DC Input Signal
- Signal Splitters
- Frequency
- Potentiometers
- RTD Input
- Strain Gage, Bridge, Load Cell
- Thermocouple

APPLICATIONS:

- Signal Isolation
- Signal Scaling
- Amplification
- Signal Matching
- Alarm Trip
- Signal Splitting

API EXCLUSIVE FEATURES:

- One Minute Setup for Hundreds of I/O Ranges
- Removable Plugs for Faster Installation
- Full 1200 V Input/Output/Power Isolation
- Built-in Loop Power Supplies for Sink/Source I/O
- Loop Tracker® LEDs
- Transmitter Functional Test Button
- Alarm Functional Test Button
- Hot Swappable Design
- Module Power
- Fast Delivery
- Customized Solutions for Special Conditioner Needs

DC to DC Signal Isolator-Splitter

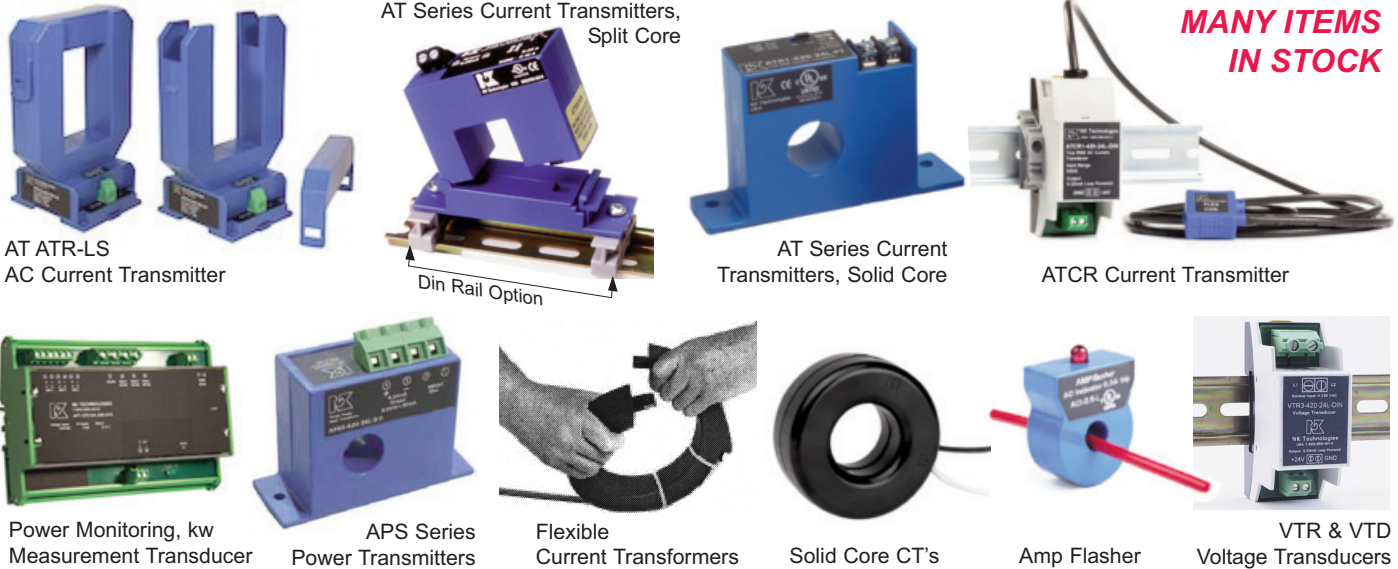


APD 4393  
DIN Mount

SIGNAL CONDITIONERS

Product Website: [www.api-usa.com](http://www.api-usa.com)

**MANY ITEMS  
IN STOCK**



## Power (kW) Measurement Transmitters

### Key Features:

- True Power Measurement: Measures true power (HP or kW) loads; accounts for voltage and power factor fluctuations and improves sensitivity to load changes.
- Industry Standard Analog Outputs: 4-20 mA, 0-5 or 0-10 VDC.
- Compact DIN Mounted Housing
- Measure the power usage of a single piece of equipment, an area of a plant or the entire facility.
- Low profile reduces cabinet depth requirements.
- Designed to Meet UL, CUL and CE Approval Accepted worldwide

Product Website:

<http://www.nktechnologies.com/power-monitoring-measurement/index.html>

## Flexible Current Transformers

### Key Features:

- 4" opening
- 5 amp secondary, with 12 ft. leads
- Indoor or outdoor use
- Insulation: 600 Vac
- Current ranges: 200, 250, 300, 400, 500, 600, 800, 1,000, 1200, 1500, 1600, 2000 amps

Product Website, Flexible Split-Core:

[www.flex-core.com/split-core-current-transformers.htm](http://www.flex-core.com/split-core-current-transformers.htm)

Product Website, Solid-Core:

[www.flex-core.com/solid-core-current-transformers.htm](http://www.flex-core.com/solid-core-current-transformers.htm)

## Solid Core CT's

### Key Features:

- UL Recognized
- Window size 2.5"
- Current ratios from 50:5 to 1000:5

## NK Technologies AT Series Current Transmitters and Switches

### Key Features:

- Output: 4-20 mA, isolated, 2-wire and 4-wire
- Solid core and split core models
- Factory matched and calibrated single piece transducer, more accurate than traditional two-piece
- Zero plus span pots
- Jumper selectable ranges, eliminates zero span pots
- Output is magnetically isolated from the input for safety
- UL, CUL and CE approved
- Also available: Standard CT's with 5 Amp output

Product Website:

[www.nktechnologies.com/products.html](http://www.nktechnologies.com/products.html)

## VTR Series True RMS Voltage Transducers

### Key Features:

- 24VDC loop-powered
- Input: 120VAC, 150VAC, 240VAC, 480VAC, 500VAC
- Output: 4-20mA Proportional; capped at 24mA
- Response time: <250 ms (to 90% value)
- Accuracy: <1%
- Linearity: <0.5%
- Isolation Voltage: 2500VAC
- Frequency range: 40Hz - 5KHz

AC Volts

[www.nktechnologies.com/pdfs/vtr\\_data\\_sheet\\_0411.pdf](http://www.nktechnologies.com/pdfs/vtr_data_sheet_0411.pdf)

DC Volts

[www.nktechnologies.com/voltage-transducers/datasheet/vtd\\_datasheet.pdf](http://www.nktechnologies.com/voltage-transducers/datasheet/vtd_datasheet.pdf)



**CD1 and CD3  
CMOS  
Image Sensors**



**Key Features:**

- Small size with full-function lasers
- Versatility from 30 (±4mm) to 250 (±150mm)
- Transistor and analog (4 - 20) outputs available
- Remote Easy Teach-in System
- Easy-to-see display
- Analog restraint function
- Control Output Pre-setting

Product Website:

[www.optex-fa.com/download/displacement\\_data/catalogue/cd.pdf](http://www.optex-fa.com/download/displacement_data/catalogue/cd.pdf)

**L-GAGE® LT3  
Long Range Laser Sensor**



**Key Features:**

- Extremely long range: 5 m with white targets, or 3 m with gray targets
- Analog and discrete (switched) outputs in each sensor, with independent window limits
- Choose NPN or PNP discrete output, plus 0 to 10 Vdc or 4 to 20 mA sourcing analog output
- Rugged construction withstands demanding sensing environments: rated IEC IP67, NEMA 6

Product Website:

[www.bannerengineering.com/en-US/products/8/Sensors/38/Laser-Sensors/42/L-GAGE-LT3-Series/](http://www.bannerengineering.com/en-US/products/8/Sensors/38/Laser-Sensors/42/L-GAGE-LT3-Series/)

**30,000+  
In Stock!  
(All Models)**



**HTM Cord Sets  
and Distribution Blocks**

**Key Features:**

- Micro, Pico, Mini Styles Available
- Straight and Right-angle Models
- With or Without LED's
- 5 Meter, 10 Meter, 15 Meter Lengths
- PVC Jacket Standard, PUR Optional
- Custom Cables available

Product Website:

[www.htm-sensors.com/cables/cables.htm](http://www.htm-sensors.com/cables/cables.htm)

LED's on all 4 sides



30mm

18mm

12mm

8mm

**Lifetime  
Warranty**

**8mm,  
12mm,  
18mm**

**IN STOCK  
ITEM**

**Standard Sensing Range  
Proximity Switches**

**Key Features:**

- Direct interchangeability with most competitor's brands
- Maximize your application with our low cost standard sensing range family.
- All prox switch models in stock - over 30,000 pieces
- Be sure to see our CORD SETS, straight or right angle, 30,000+ in stock. Pricing starts at \$9.00.
- We will beat any price, and we'll stock it for you.

Product Website:

[www.htm-sensors.com/prox/Standard/standard\\_prox.htm](http://www.htm-sensors.com/prox/Standard/standard_prox.htm)

***If you do not see what you need in this catalog, call us.***

**Phone: (864) 848-3993 • (864) 848-9569 • E-mail: [mike@traskinst.com](mailto:mike@traskinst.com)**

LED's on all 4 sides



30mm

18mm

12mm

8mm

**Lifetime Warranty**

*3 Times the Standard Sensing Distance*

**IN STOCK ITEM**

## L-O-N-G Sensing Range Proximity Switches

### Key Features:

- Solve prox breakage
- Most prox switch models in stock
- Other models available: short body, pre-corded, non shielded
- Be sure to see our CORD SETS, straight or right angle, 30,000+ in stock. Pricing starts at \$9.00.
- We will beat any price and we'll stock it for you.

Product Website:

[www.htm-sensors.com/prox/lngrng/longrange.htm](http://www.htm-sensors.com/prox/lngrng/longrange.htm)

## Standard and L-o-n-g Sensing Range Metal Head Proximity Switches



**Lifetime Warranty**

*Many other Product Configurations Available*

**IN STOCK ITEMS**

**Long Range:**  
2X Range, 18 & 30mm  
3X Range, 8 & 12 mm

### Key Features:

- Single one-piece stainless steel machined body
- IP67, CE and CSA approved
- Short circuit and reverse polarity protected
- Available in 8 mm, 12 mm, 18 mm and 30 mm
- 4 view LED's standard
- NPN or PNP outputs
- Operating temp: -25° to 70° C

Product Website:

[www.htm-sensors.com/prox/metalhead/metalhead.htm](http://www.htm-sensors.com/prox/metalhead/metalhead.htm)



## Easy Teach Capacitive Proximity Switch Series 80 - PNP or NPN

### Key Features:

- Housing 30mm diameter
- Easy Teach by wire or push button
- Housing material: PA / PPO
- Sensing distance 1...30 mm adjustable
- With connector M12 or integral cable
- Protection: IP67
- Operating temperature: -25° to 70° C

Product Website:

[www.rechner.com/SearchResult.aspx?CategoryID=206](http://www.rechner.com/SearchResult.aspx?CategoryID=206)



## Point Level Switches

- Housing: 8 mm to 64 mm diameter
- Operating voltage: 10 VDC to 250 VAC
- Operating distance: 0 mm to 50 mm
- Housing material: stainless steel / brass PPO / PA / PVC / PTFE / PEEK / PVDF
- Permitted ambient temperature: - 70°C to + 250°C
- Reliably detects vegetable and mineral oils, vinegar, alcohol, water, beer, syrups, fruit concentrates, salsa, ketchup, mayonaise, mustard, batters and more.

*Capacitive switches are useful in many different applications. Call Trask to find the right one for your application.*

Product Website:

[www.traskinstrumentation.com/pdf/Point\\_Level\\_Sensor.pdf](http://www.traskinstrumentation.com/pdf/Point_Level_Sensor.pdf)

PROXIMITY SWITCHES

**IN STOCK ITEM**

**SMARTEYE®  
COLORWISE Sensor**

**Features**

- 4-Digital Outputs (NPN or PNP)
- 4-Channel Monitor for at-a-glance performance evaluation
- 3-Analog Outputs (XYZ or xyY); 0 to 5 VDC
- Adjustable Tolerance for each channel
- Adjustable Timers for each channel: One Shot; On Delay; Off Delay; Latch
- 14-Pin 6" pigtail 1/4-turn locking connector or cable version
- Adjustable LED light intensity
- Select high speed versus high resolution (CW-1 model only)
- Short range and long range models available
- Remote Color Capture
- Button Lockout



Product Website:

[www.tco.com/userfiles/files/2011catalog/cw-pages.pdf](http://www.tco.com/userfiles/files/2011catalog/cw-pages.pdf)

**Sensor, Power Supply & Relay Module**

Python



**IN STOCK ITEMS**

EGI  
RLC



DIN Rail  
Mount

**Key Features:**

- Self-contained AC/DC power converter
- Integrated isolated TRIAC output
- Stored in or pulled through as a 1" straight conduit
- Sleek design
- IP67 enclosure rating
- CE certified
- Plug and play with M12 connectors
- Allows convenient use of DC sensors with AC PLC inputs

**Key Features:**

- Sensor Power Supply, 24VDC @ 580mA
- Auto sensing for both NPN and PNP
- DIN rail mount
- Screw terminals
- Modes: Standard, Time Delay, Dual Level

Product Website:

[www.traskinstrumentation.com/pdf/Sensor\\_Power\\_Supply.pdf](http://www.traskinstrumentation.com/pdf/Sensor_Power_Supply.pdf)

Application:  
Safety Seals  
Gap Detection  
Glue Detection



**SMARTEYE® STEALTH-UV Sensor**

**Key Features:**

- Provides "at-a-glance" performance data
- AutoSet™ adjustment (push one button, one time)
- Timer allows response to short duration input
- High speed detection
- Built-in 4-pin 12mm 6" male micro connector
- Through-hole or bracket mount
- Remote Fiber Models for tight space

*Many other models available. Call to discuss the best one for your application.*

Product Website:

[www.tco.com/userfiles/files/2011catalog/uvs-digital-pages.pdf](http://www.tco.com/userfiles/files/2011catalog/uvs-digital-pages.pdf)

**EZ PRO SMART EYE® Sensor**

**Key Features:**

- Push Button Teach
- Many fiber sizes available
- ACT™ Automatic Contrast Tracking
- AGS™ Automatic Gain Select
- AUTOSET™ Adjustment
- Remote AUTOSET™

*Many other models available. Call to discuss the best one for your application.*

Product Website:

[www.tco.com/userfiles/files/2011catalog/ezp-pages.pdf](http://www.tco.com/userfiles/files/2011catalog/ezp-pages.pdf)

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***Phone: (864) 848-3993 • (864) 848-9569 • E-mail: [mike@traskinst.com](mailto:mike@traskinst.com)***



## H60 High Performance Photoelectric Sensor



### Key Features:

- Available as: Throughbeam, Retro, Diffused, Background Suppression, Contrast, and Distance
- Ranges: 7mm - 20 meters, see specific model specs
- Output: NPN, PNP, 0-10Vdc
- Electrical Connection: M12 or precorded
- Rating: IP67

*Many other models available. Call to discuss the best one for your application.*

Product Website:

[www.htm-sensors.com/photo/h60/h60.htm](http://www.htm-sensors.com/photo/h60/h60.htm)

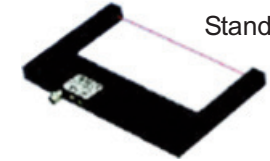
## Miniature Optical Sensors and Fork/Frame Sensors



Mini Through Beam Sensors



Optical Frame Sensors



Standard Laser Fork Sensors

### Key Features:

- Latest LED technology
- Operating temperature: -10°C to +55°C (Standard Fork Sensors to 60°C)
- Output: PNP or NPN
- Resolution: 1mm to 1.5mm
- DC powered

*Many other models available. Call to discuss the best one for your application.*

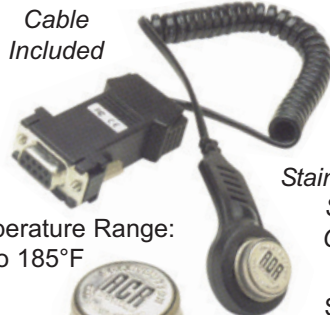
Product Website:

[www.stmsensors.com/](http://www.stmsensors.com/)

Inputs:  
TC's, RTD's,  
Volts, Current,  
Pressure



Cable  
Included



Temperature Range:  
-40 to 185°F

Stainless  
Steel  
Case

Size:  
17mm diameter  
by 6mm height

## SmartReader Smartbutton Data Logger Family

### Key Features:

- Memory Size: 2048 readings
- 8 and 12 bit resolution models
- User configurable with TrendReader software
- Fast sampling up to 25 per second
- 10 year battery, replaceable (SR and SRP family)
- PC Requirements: IBM PC, RS232
- Sampling Methods: Continuous (First-in, First-out), Fill then stop
- Available with many different input types (SR & SRP)

Product Website:

[www.acrsystems.com/products/](http://www.acrsystems.com/products/)



HyperLogger™

MiniLogger™

IL 80 IntelliLogger™

### Key Features:

- Continuously Monitor Valuable Remote Assets
- Access from your PC via the LAN and Internet
- Web Page Server with embedded current values and status
- Email and Text messages with status, alarms and data
- Isolated Analog and Digital inputs for sensor and signal interface
- Modular Design for field I/O Expansion
- Ethernet, modem, RF and cell-phone Communications Options
- Provided with intuitive, HyperWare-II... icon-based programming and communication software

Product Website:

[www.logicbeach.com/index.html](http://www.logicbeach.com/index.html)

Modular Design -  
Add any option  
board in the field.



**Trask Digital Panel Meters  
for Analog Process Signals**

**IN STOCK  
ITEM**

**Key Features:**

- Process inputs: T/C, RTD, 4-20 mA, 0-10 Vdc, AC, DC, POT, AC Amp, AC RMS, and Strain Gages
- Plug-in option board, analog, dual relay and quad relay
- Plug-in digital option board; RS232/485/ethernet
- Five full digits bidirectional;  $\pm 99999$
- 50-60 readings per second
- True peak hold, auto tare, and digital filter
- Isolated 5, 10, or 24 Vdc excitation
- NEMA 4 lens cover

Product Website, MM50:

[www.traskinstrumentation.com/pdf/Trask\\_Process\\_Meter.pdf](http://www.traskinstrumentation.com/pdf/Trask_Process_Meter.pdf)

Product Website, MW50:

[www.traskinstrumentation.com/pdf/Trask\\_Scale\\_meter.pdf](http://www.traskinstrumentation.com/pdf/Trask_Scale_meter.pdf)

Modular Design -  
Add any option  
board in the field.



**Trask Digital  
Counter/Timer Panel Meter**

**IN STOCK  
ITEM**

**Key Features:**

- Simple setup using front panel or computer
- Fast control response • True peak readings
- Measure rate and total simultaneously
- 2 channel pulse or AC input
- Voltage-to-frequency converter for rate and total
- Quadrature X, Y, Z inputs for differential or single-ended encoders
- Scalable in any Engineering Units
- Worldwide power 85-264 Vac and 90-370 Vdc
- 5, 10, or 24 Vdc output to power sensors/Trans.

Product Website:

[www.traskinstrumentation.com/pdf/Trask\\_Counter\\_meter.pdf](http://www.traskinstrumentation.com/pdf/Trask_Counter_meter.pdf)

2", 4", 6", & 8"  
Digital Sizes



**Large Display Digital Meter**

**Key Features:**

- 2", 4", 6" or 8" digits for reading distances up to 320 ft.
- Normal or outside viewing brightness
- Signal types: process, load / weight, rate / frequency, totalizer, serial data, BCD data, 24-hour clock, elapsed time
- Power: 95-265 Vac or 11-30 Vdc
- Outputs: RS232/422/485 or dual relay
- Mount: panel, wall, hanging, or outdoor-rated weather cowl.
- Enclosure colors: white or black
- Sealed to NEMA-4 (IP65) for 2", 4" & 6" versions
- Sealed to NEMA-12 (IP54) for 8" version
- Remote programming unit

Product Website: [www.laurels.com/magna\\_series.htm](http://www.laurels.com/magna_series.htm)



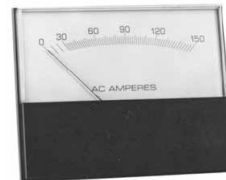
**Elapsed Time  
Meters**



**Horizon Line  
Panel Meters**



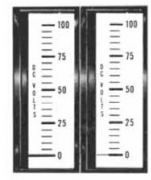
**New Big Look  
Panel Meters**



**Stylist Series  
Panel Meters**



**Thin Edgewise  
Meters**



**Edgewise  
Meters**

**Large Selection of Analog Meters**

**Call Trask to discuss your application's  
specifications. (864) 848-3993**



## PID Controllers FDC-100 Series

Starting Price  
**\$180.00**

**IN STOCK  
ITEM**

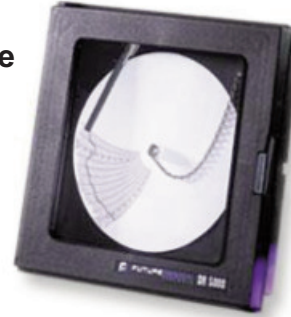
### Key Features:

- Fuzzy logic PID temperature control, auto tune
- Up to three control outputs
- Outputs: 5VDC & 14VDC SSR
- Variety of alarm modes
- 2-wire transmitter power supply
- SEL function to arrange user menu
- NEMA 4X IP65 protection available
- FREE data acquisition software - Multiview CFR21 Part 11 features

Product Website:

[www.futuredesigncontrols.com/Docs/FDC-100%20SeriesV.pdf](http://www.futuredesigncontrols.com/Docs/FDC-100%20SeriesV.pdf)

Starting Price  
**\$600.00**



**IN STOCK  
ITEM**

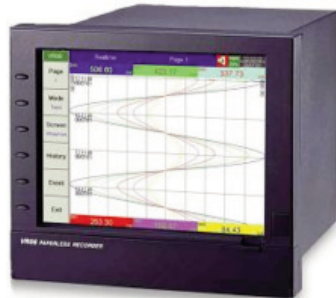
## DR 5000 Circular Chart Recorder

### Key Features:

- Thermocouple (T/C): Type J, K, T, R, B, S
- RTD: PT 100 ohm RTD (385 curve)
- Linear: 4-20 mA, 1-5 VDC, 0-5 VDC
- Chart size: 10"
- Accuracy:  $\pm 0.5\%$  of span (100 division span)
- Chart Speed: configurable
- Thermal Print or Ink Styles

Product Website:

[www.traskinstrumentation.com/pdf/DR5000.pdf](http://www.traskinstrumentation.com/pdf/DR5000.pdf)



## VR Series Paperless Strip Chart Recorder

### Key Features:

- 6.4" Color TFT LCD with 640 x 480 pixels resolution
- Up to 18 isolated input channels
- 6 Slot Plug and Play supported I/O cards
- User-friendly
- Data saved in removable compact flash ROM
- Communication: standard ethernet and optional RS-232/422/485
- Fast sampling rate - 5 times per second 200ms for all channels; programmable filter or moving average sampling method

Product Website:

[www.futuredesigncontrols.com/Docs/VR06\\_Brochure\\_v2.37\\_November-2011.pdf](http://www.futuredesigncontrols.com/Docs/VR06_Brochure_v2.37_November-2011.pdf)

**2-Year  
Warranty**



**IN STOCK  
ITEM**

**UL/CE**

## Strip Chart Recorder

### Key Features:

- Easy to Program
- Brilliant 6-color Dot Matrix printing
- Universal Temperature & Process Inputs
- Large LED display; 18mm/0.71" High
- Short Depth: 150mm/5.9"
- DIN Panel Cutout: 138mm x 138mm
- IP65/Nema 4X
- RS232 standard / RS485 Modbus Optional
- Optionals: 6 relay output, 3 digital input, 3 relay output & 3 digital input
- Out of Paper Sensor & Output

Product Website:

[www.futuredesigncontrols.com/Docs/CR06\\_Brochure\\_02-2007.pdf](http://www.futuredesigncontrols.com/Docs/CR06_Brochure_02-2007.pdf)





### Vibration Switch

Use on cooling towers, reciprocating compressors, reciprocating engines, industrial fans, centrifugal pumps, motors, gear boxes

#### Key Features:

- Replaces Mechanical Switches
- Output: relay contact
- Remote or local alarm reset
- 2 Time Delays
- 110/220 VAC



### Vibration Transmitter

#### Key Features:

- Loop powered 4-20 mA output
- Easy to install
- Ranges available: 0-1, 0-2, 0-3 inches/second
- Intrinsically Safe\*
- \*See Spec Sheet

Product Website:

[www.traskinstrumentation.com/pdf/140\\_Transmitter.pdf](http://www.traskinstrumentation.com/pdf/140_Transmitter.pdf)



C<sub>UL</sub> US LISTED



### HTM Safety Light Curtain

#### Key Features:

- External device monitoring
- Fixed blanking
- Floating blanking
- Cascade configuration
- Category 4 safety, category 2 safety
- Finger protection (14 mm), hand protection (30 mm), body protection (access)

Product Website:

[www.htm-sensors.com/light\\_curtains/lightcurtains.htm](http://www.htm-sensors.com/light_curtains/lightcurtains.htm)



### Microguard® Light Curtain

#### Key Features:

- Cost Competitive
- 2 Year Warranty
- Built-in machine interface monitoring
- Dual Self-checking captive contact safety relays
- Fast reacting - Less than 30ms all sizes
- Non-mated units, matched sets are not required
- 2, 3, 4, or 5 sided protection available with mirrors
- Sixteen standard sizes available
- 1/2", or 1" beam spacing models available
- Not affected by ambient light sources

Product Website:

[www.pinnaclesystems.com/group\\_curtains.html](http://www.pinnaclesystems.com/group_curtains.html)

Meets or exceeds current standards: OSHA, ANSI, RIA, CE acceptance, including European 1760-1 standard.

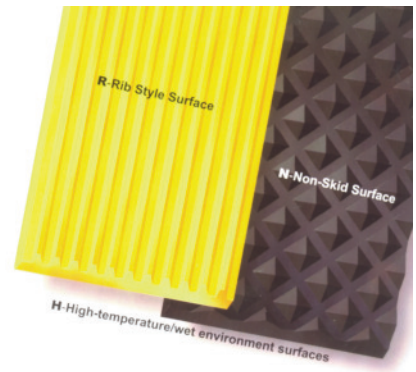
### NSD Safety Mat System

#### Key Features:

- Can absorb punctures
- Active edging
- 100% active zones
- Customized activation thresholds available
- Metal box or DIN-rail controllers available
- Multi-lingual controller with built-in diagnostic message display
- Maximum intermittent load: 3000 psi
- Category 3 safety system
- Homerun plug connector or wire capable
- No steel components to rust or deform

Product Website:

[www.pinnaclesystems.com/group\\_mats.html](http://www.pinnaclesystems.com/group_mats.html)



**Maximum  
Simplicity**



**Excellent  
Flexibility**

## DataVS2 Vision Sensor

### Key Features:

- Flexible and intuitive setup via PC through Ethernet
- Memorisation of 20 inspections
- 14 different controls
- 360° pattern match for Advanced models
- Logical operators: AND, OR, NOT, NAND, NOR, ecc.
- TURBO mode to double elaboration speed
- VSM compatibility
- Inspection & Identification functionalities together available on Professional models

Product Website:

[www.traskinstrumentation.com/pdf/DataVS2.pdf](http://www.traskinstrumentation.com/pdf/DataVS2.pdf)



## Hot Metal Detectors

### Key Features:

**Foto-captor Remote:** Remote mounted electronics connected by means of fibre optic cables to custom suited lenses. Especially suitable for extreme conditions of heat and dust, protecting electronics from operating environment. Offers a fully flexible system for a wide range of response temperatures and viewing angle configurations.

**Foto-captor Compact:** Compact Hot Metal Detection system featuring combined electronics and viewing lens, all-in-one design construction. Available with water cooled jackets and air purge, capable of operating in the harshest of working environments. Multiple options for response temperature and lens configuration, from the small detail spot lenses to wide angle viewing fields.

[http://www.captor.com/p/home&c=\\_Foto%20Captors](http://www.captor.com/p/home&c=_Foto%20Captors)



## PT-9000 Series Heavy Industrial String Pots

### Key Features:

- Full Stroke Range (standard): 0-75 to 550 in.
- Full Stroke Range (extended range): 0-600 to 1700 in.
- Output Signal Options: 4...20 mA, 0...20 mA
- Accuracy:  $\pm 0.12\%$  F.S.
- Repeatability:  $\pm 0.05\%$  F.S.
- Datasheets: pt9420.pdf, pt9420ex.pdf

Product Website:

<http://www.traskinstrumentation.com/pdf/P9420.pdf>



## flow-captor smart meter the adjustable flow meter

### Key Features:

- Suitable for pipes up to 24"
- Measuring range from 0.2 m/s up to 3 m/s
- A flow meter for everything that flows
- Made for the 1/7th law

Product Website:

[http://www.captor.com/downloads/4115\\_30smdatasheet.pdf](http://www.captor.com/downloads/4115_30smdatasheet.pdf)

**ST-3000,  
ST-6000 Series  
Infrared  
Thermometers**



**Key Features:**

- Measuring ranges: ST-3000, -76°F to 932°F; ST-6000, 76°F to 1400° F
- Laser sighting standard
- Fixed or Adjustable Emissivity
- Non-contact measurement
- Large easy-to read display
- Battery Powered
- Rugged Design
- Economically priced

Product Website:

[www.koboldusa.com/sites/default/files/product\\_files/ST\\_datasheet.pdf](http://www.koboldusa.com/sites/default/files/product_files/ST_datasheet.pdf)

**MPC Duplex  
Pump Controller**



**Key Features:**

Duplex Pump Controller Model MPC is a 4-20mA based duplex pump controller intended primarily for wastewater lift stations and other pump down or Pump In applications. It includes sensor inputs for the seal failure and temperature failure devices on most submersible pumps.

- Input Type: 4 to 20 mA or 2 (or 0) to 10 VDC selectable
- Output Type: (1) Form A SPDT contacts for pump output, (1) Form A SPST contact for alarm,
- Control Type: On/off pump Out or In, Direct or Reverse
- Seal Failure (Moisture Sensor) Detection

Product Website:

<http://www.dwyer-inst.com/Product/Level/PumpControllers/SeriesMPC#specs>

**Load Cell  
Bridge Simulator**



**Key Features:**

- Designed for high accuracy
- Sealed lid with neoprene O-ring
- Completely waterproof if properly secured
- Dustproof and crush tested to 500 pounds
- Four operational modes including vernier adjustment, calibrated adjustment, 0.25 mV offset and 0.50 mV offset
- Ideal for setpoint or batching simulation

Product Website:

[www.traskinstrumentation.com/pdf/Load\\_Cell.pdf](http://www.traskinstrumentation.com/pdf/Load_Cell.pdf)

Output  
Adjustable  
±10%



**IN STOCK  
ITEM**

DIN or  
Surface  
Mount

**Enclosed Switching Power Supplies**

**Key Features:**

- Dual Output terminals
- LED lights up to indicate output voltage drop
- Wide range voltage input (AC 110-220V)

MODEL	OUTPUT VOLTAGE	OUTPUT CURRENT
SP-P015S024P-FT	24VDC	0.6A
SP-P030S024P-FT	24VDC	1.3A
SP-P050S024P-FT	24VDC	2.1A
SP-P100S024P-FT	24VDC	4.2A
SP-P240S024P-FT	24VDC	10.0A



Product Website:

[www.traskinstrumentation.com/pdf/switching%20power\\_supply.pdf](http://www.traskinstrumentation.com/pdf/switching%20power_supply.pdf)

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**Phone: (864) 848-3993 • (864) 848-9569 • E-mail: [mike@traskinst.com](mailto:mike@traskinst.com)**



A) Ice Cube Relay and Socket



B) Field Attachable Straight Connector,  
**IN STOCK SIZES:**  
M8, 4-pin, Male & Female,  
M12, 4 pin, Male & Female



C) Field Attachable Right Angle, Connector  
**IN STOCK SIZE:**  
M12, 4-pin, Female  
(Field Connectors are available in male or female models)



D) Right Angle Bracket:  
**AVAILABLE SIZES:**  
12mm, 18mm & 30mm  
Flat Right Angle Bracket:  
**AVAILABLE SIZES:**  
12mm, 18mm & 30mm



E) PN: Model AC443 Sensor Power Pack  
Provides 18VDC power for most sensors via M12 connector. Provided with on-off switch, LED's, and variable analog indication. Includes pushbutton for limit/span setting of VM1/18/30/80 sensors.



F) Proximity Switch, Spring Loaded Mount, Block Style for flush and non-flush sensors.  
**AVAILABLE SIZES:**  
8mm, 12mm, 18mm, 30mm



G) Proximity Switch, Spring Loaded Mount, Tubular Style for flush and non-flush sensors.  
**AVAILABLE SIZES:**  
8mm, 12mm, 18mm, 30mm



H) Model AC250-n Tank sensor mounting reducer. Converts 30mm to NPT.



I) Multiple Palm Buttons



J) Ergonomic Palm Buttons



K) Banking Screw Adapter, Hardened "Stop" Screws  
**AVAILABLE SIZES:**  
8mm, 12mm, 18mm



L) MSR Latching Relay, for Dry Contact Control Inputs, and Providing Relay Outputs for ON/OFF Pump Control.



M) DBQ5 Portable Sensor Demo Box



N) HTM Sensor Tester & Demo Box

Product Websites:

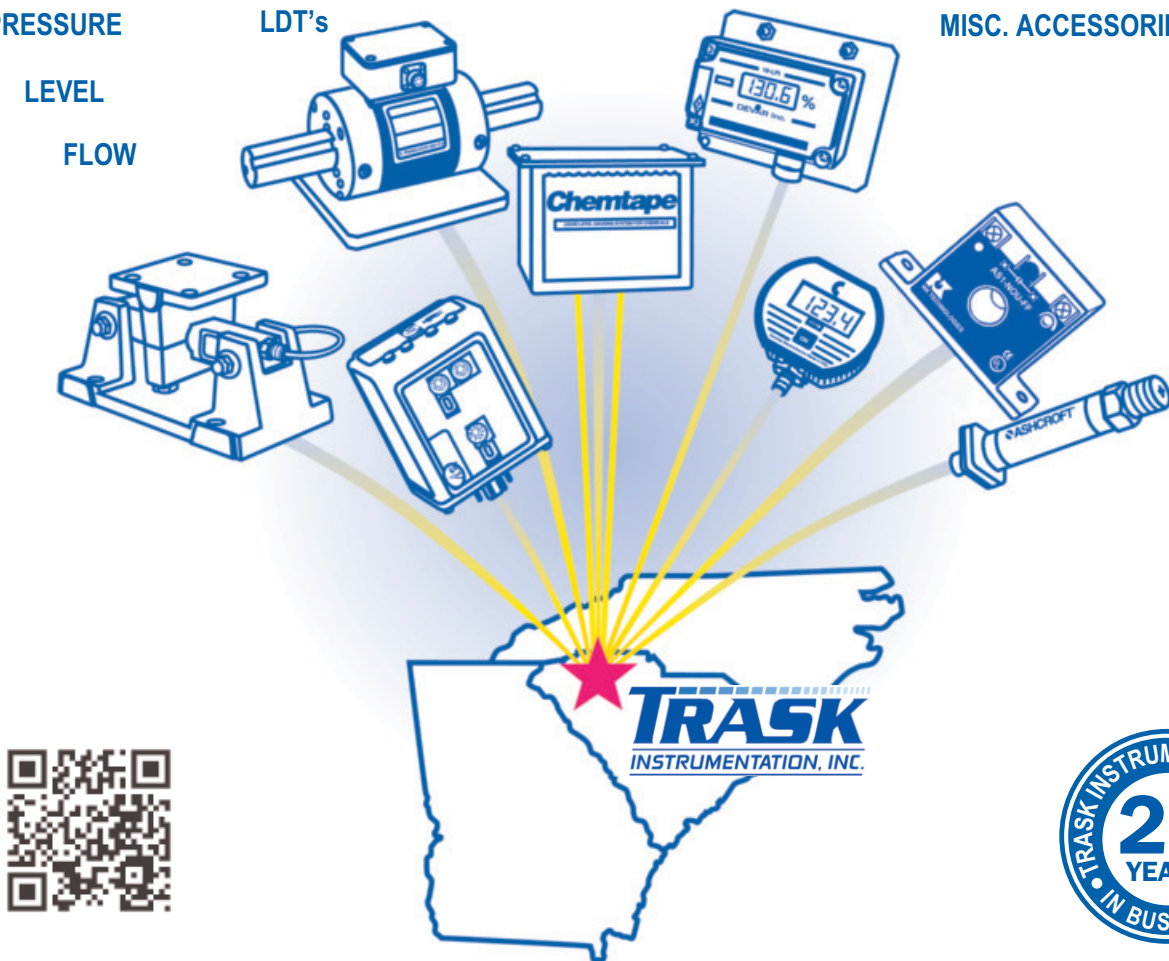
Proximity Switches F, G; Banking Screw K:  
[www.softnoze.com/products\\_csm.cfm](http://www.softnoze.com/products_csm.cfm)

MSR Latching Relay L:  
[www.koboldusa.com/products/control-devices-and-relays/msr-latching-relay](http://www.koboldusa.com/products/control-devices-and-relays/msr-latching-relay)

*For information about additional available accessories, call today.*

# Your Sensor Solution Source

LOAD CELLS      WIDTH MEASUREMENT  
TEMPERATURE      WEIGHING SYSTEMS      PROXIMITY SWITCHES      GAS DETECTION  
HUMIDITY      SIGNAL CONDITIONERS      PHOTOELECTRIC SENSORS      VIBRATION MONITORING  
MOISTURE      TRANSMITTERS      DATA LOGGERS      TENSION CONTROL  
ULTRASONICS      LASERS      DIGITAL METERS      SAFETY PRODUCTS  
TORQUE      LVDT's      PID CONTROLLERS      SPECIAL INSTRUMENTATION  
PRESSURE      LDT's      MISC. ACCESSORIES



See us on the web: [www.traskinstrumentation.com](http://www.traskinstrumentation.com)



To get a FREE demo or quote, contact us today.

Mike Trask • Karen Lane • Allen Hooker

414 W. Poinsett St., Greer, SC 29650 • Phone: (864) 848-3993

Fax: (864) 848-9569 • E-mail: [mike@traskinst.com](mailto:mike@traskinst.com)