INVENTORY MANAGEMENT
POINT LEVEL & CONTINUOUS MANAGEMENT
**CONTINUOUS LEVEL**

<table>
<thead>
<tr>
<th>Series 400</th>
<th>Series 200</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADAR RIGHT™</td>
<td>SILO PATROL® SE</td>
</tr>
</tbody>
</table>

**FEATURES**

- Non-contact, Continuous Level Measurement...Nothing to “Touch” the Process
- Proven Pulse Radar Technology
- Small Beam Angle to Concentrate Energy for High Accuracy and Reliability
- Small “Dead Band” (“Blanking Zone”) for Optimum Measurement in Vessel
- Advanced Micro-processor and Unique Echo Processing Technology
- No Moving Parts to Wear; Low Maintenance
- Easy Set-up / Configuration with LCD Push Button Display Module (Included)

**NON-CONTACT RADAR**

- Sensor Performance Unaffected by Material Composition...Works in Tough and Dusty Conditions
- Intuitive, Wireless Set-up / Configuration Using a Free App on an Android™-based Device with Bluetooth®
- Modbus™ Connectivity
- Continuous or On-Demand Measurements with Lock Out Override
- Easy to Install & Virtually Maintenance Free
- Smart Sensing Reliability Combining Optic and Half-Effect Technologies
- Measuring Range Up to 150 ft (46m)

**CABLE-BASED SMART SENSOR**

- Hazardous Location Approvals for Dust
- 0°, 5° or 10° Freeze-Resistant Mounting Flange
- Outputs: Smart RS-485 with Modbus Connectivity or 4-20mA Analog
- Local Indication (HMI®)
- Wireless EZ Communication Interface
- SiloTrack™ CLOUD or SiloTrack™ PC Inventory Management Systems
- Auxiliary Output Enclosure (AOE) with Relay and/or Analog Outputs

**INVENTORY MANAGEMENT**

- Web-based Application to Access Real-time Material Inventory Data from Any Device that has an Internet Connection
- Intuitive, Flexible and Powerful Graphical User Interface for Monitor’s RS-485 (Modbus Comp.) Continuous Level Sensors
- Securely View Distance, Level, Volume, Weight, Percentage and Ullages (Empty Space) for Silos
- Set Level Alarms and Monitor Sensor Status...Configure E-mail and Text Notifications
- Create, Save & Generate Configurable Reports

**OPTIONS**

- Models Available for Various Applications
  - **Series 400** - For Powders & Bulk Solids in Vessels Up To 100 ft (30m) High
  - **Series 200** - For Liquids Up To 100 ft (30m)
- Variety of Antenna (Horn) Sizes
- Selection of Flanges
- Dust Protection Options (Air Purge or Dust Shield) for Series 400
- SiloTrack™ CLOUD Web-based Remote Inventory Management App or HMI® Control Panel for RS-485 Version
- 4-20mA Analog or Smart RS-485 (Modbus Comp.)

**APPLICATIONS**

- Use when it is important that the level instrument does not contact your process.
- Reliable choice for most powders & bulk solids.
- For real-time level measurements.
- Girrbal (swivel) mounting on Series 400 to aim sensor for optimal measurements and to avoid vessel obstructions.
- Series 200 is designed for liquid applications.

- Use when target material characteristics may change thereby eliminating need for re-calibration.
- Reliable inventory management system.
- Great economical choice when accurate yet occasional measurements are required.

**SPECIFICATION**

- **Power**: 24VDC (16-26 VDC)
- **Ambient Temp:** -40 to +150°F (-40 to +65°C)
- **Frequency Range**: 26 GHz
- **Measurement Accuracy**: Series 400: ±0.39in (+10mm); Series 200: ±0.12in (+3mm)
- **3dB Beam Angle**: 3° (78mm) Dia. Antenna: 12°
- **Dead Band**: 12 to 30” (305mm to 760mm) - Antenna and/or Application Dependent
- **Signal Output**: Smart RS-485 / Modbus RTU (2-wire)
- **Mounting**: Girrbal/Swivel (400) or 1-1/2” NPT (200); K-Flanges and ANSI Flanges
- **Approvals**: CE Mark; TÜV Rheinland US/C, Ordinary Loc.
- **Housing Enclosure**: Die cast aluminum, ENCLOSURE TYPE 4X, IP66

- **Power**: 115 VAC; 230 VAC ±15%
- **Ambient Temp**: SMU: -40 to +150°F (-40 to +65°C); HM/ACE: -4° to +131°F (-20 to +55°C)
- **Int. Bin Temp**: Up to 300°F (149°C)
- **SMU**: Smart: RS-485 half-duplex, isolated Analog: 4-20mA, isolated
- **Mounting**: Flange with 7.0” (177.8mm) bolt circle
- **Approvals**: CSAus; Ordinary Locations; CSAus, Class II & III; ATEX; II 1 D c Ex t b IIC 177° C Db IP66 (Ta = 40°C to +65°C)
- **IECEX**: Ex t b IIC 177° C Db IP66 (Ta = 40°C to +65°C)
- **CE Mark**: Enclosure Protection: NEMA 4X; IP66

**SiloTrack™ CLOUD Gateway - Power Requirements:**
- **AC**: 115-230VAC ± 15%, 50/60 Hz; **DC**: 24VDC ±15%
- **Power Requirements**: AC: 70W (1.5A max @ 115VAC); DC: 18W max
- **AXI 24VDC Output**: 1.7A max (AC Version Only)
- **Cellular Wireless Interface [LTE - North America (MS)]**: LTE CAT 4: 700/621/13/850/1900/1900/850 MHz; Transfer rate (max): 150 Mbps down, 50 Mbps up
- **Sensor Comm.:** RS-485 half-duplex, non-isolated, Modbus RTU protocol, 9600/2400
- **Ambient Temp:** -30°F to 149°F (-34° C to 65° C)
- **Enclosure Material**: PBT / PC

**AIRMATIC**

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### TMSILO TRACK

**PC**

- Software to view silo level measurements anytime, from any location using a device with internet connection.

- **PC Based Server with Multi-User Access.** (Available for SiloPatrol only.)

### FEATURES

#### ROTARY PADDLE, FAIL-SAFE
- Self-Validating "TRUE" Fail-Safe Design with Microcontroller-Based Reliability
- Patented Magnetic Sensing Technology
- Hazardous Location Approvals for Gases and Dust
- Variety of Paddle Designs for Material Detection and Sensor Longevity
- High Temperature Unit (Top Mount)
- Pipe Extension Models
  - 144" (365cm) Maximum Length
  - Field Adjustable Cable Extension
  - 78" (2m) Maximum Length
- Hazardous Location Approvals for Gases and Dust (Model KAX)
- Variety of Paddle Designs for Material Detection and Sensor Longevity
- High Temperature Unit (Top Mount)
- Pipe Extension Models
  - 144" (365cm) Maximum Length
  - Field Adjustable Cable Extension
  - 78" (2m) Maximum Length
- Use "true" fail-safe product if undetected sensor failure could result in catastrophic process problem.
- LED provides means for personnel to view sensor status without visiting control room.
- Capable of sensing materials as light as 5 lbs/ft² (80kg/m²).
- Excellent when facility personnel are expected to perform in-field troubleshooting and maintenance with virtually no prior training.
- Low-cost and long-life can be achieved by specifying a DC powered model. A voltage converting circuit permits use of a reliable AC motor.
- Capable of sensing materials as light as 5 lbs/ft² (80kg/m²).

#### ROTARY PADDLE
- Basic Electro-Mechanical Operation
- Maximized Sensor Life via Motor Shutoff Feature
- DC Powered Models Use Longer Life AC Motor
- Economical and Versatile
- Enclosure Provides Ample Wiring Access and a Twist ON/OFF Cover
- Hazardous Location Approvals for Gases and Dust (Model MK-2 or MK2e)
- Variety of Paddle Designs for Material Detection and Sensor Longevity
- High Temperature Unit (Top Mount)
- Pipe Extension Models
  - 144" (365cm) Maximum Length
  - Field Adjustable Cable Extension
  - 78" (2m) Maximum Length

### OPTIONS

- DC Powered Models Use Longer Life AC Motor
- Economical and Versatile
- Enclosure Provides Ample Wiring Access and a Twist ON/OFF Cover

### APPLICATIONS

#### POWER
- 115 VAC, 230 VAC, 24 VAC/DC
- Ambient Temp.: -40 to +150°F (-40 to +65°C)
- Int. Temp.: to 250°F (121°C)
- With Hi-Temp Unit:
  - 250-500°F (121-260°C) without air-cooling
  - 500-700°F (260-400°C) with air-cooling [0.5 hp/2.14 CFM]
- Sense Output:
  - SPDT, 5A @ 250 VAC/30 VDC
- Fault Output:
  - SPDT, 5A @ 250 VAC/30 VDC
- Mounting:
  - 1-1/4" NPT or R 1-1/2" (BSP)
- Pressure: 35 PSI (2 bar) max
- Approvals:
  - CSA, UL, CSA: Ordinary Location;
  - CSA Mark: Class I & II, ATEX (2); 1/2 D c T 85°C,
  - Extd. A20/A21 T 85°C, (Ta: -40°C to +65°C), IEC6;
  - IECEx: DIP A21 IPEX T X, 100°C, -40°C to +65°C, CE Mark
  - Enclosure Protection: NEMA 4; IP66

#### POWER
- 115 VAC, 230 VAC, 24 VAC/DC
- Ambient Temp.: -40 to +200°F (-40 to +93°C)
- Int. Temp.: to 300°F (150°C)
- Hi-Temp Unit: 300-500°F (150-260°C) without air-cooling
- 600-700°F (315-400°C) with air-cooling [0.5 hp/2.14 CFM]
- Output:
  - 2-Circuit Config. - Two SPDT 15A @ 250 VAC ea. max.; 3-Circuit Config. - One SPDT 15A @ 250 VAC max. One DPDT T0A @ 250 VAC max
  - Mounting: 1-1/4" NPT or R 1-1/2" (BSP)
  - Pressure: 35 PSI (2 bar) max
  - Approvals:
    - KA - UL & CSA: Ordinary Loc.; CE Mark KAX - UL & CSA: Class I & II; CE Mark
    - ATEX (2); 1/2 D c T 100°C, Extd. A20/A21 T 100°C,
    - (Ta: -40°C to +100°C), IEC6;
    - IECEx: DIP A21 IPEX T X, 100°C, -40°C to +100°C, CE Mark
    - Enclosure Protection: NEMA 4; IP66

### SILO PATROL® SE

- LCD Display Module (standard)
- Radial Rod
- Vibration Sensor
- Rotary Paddle
- FAIL-SAFE

### SILO TRACK™

- Software to view silo level measurements anytime, from any location using a device with internet connection.

### SILO TRACK™ PC

- PC Based Server with Multi-User Access. (Available for SiloPatrol only.)

### HMI²

- Operator Interface Control Console

### WirelessEZ

- Wireless Communication Modem

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<table>
<thead>
<tr>
<th>FEATURE</th>
<th>TRUE CAP® MK-2</th>
<th>TRUE CAP® MK-2e</th>
<th>PROXIMITY SWITCH</th>
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</thead>
<tbody>
<tr>
<td><strong>RF CAPACITANCE</strong></td>
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<tr>
<td>• Maximized Reliability via Smart Sensing Algorithms Including “Self-Validating” Fail-Safe Protection</td>
<td>• Economical Design</td>
<td>• Compact Potted Packaging</td>
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</tr>
<tr>
<td>• Simple, Convenient Push-Button Calibration and Test</td>
<td>• Potentiometer-Adjusted Calibration / Sensitivity and Delay</td>
<td>• Versatile Application Sensing</td>
<td></td>
</tr>
<tr>
<td>• Driven Shield Technology Overcomes Material Build-up</td>
<td>• Driven Shield Technology Overcomes Material Build-up</td>
<td>• Electronic Solid State Outputs</td>
<td></td>
</tr>
<tr>
<td>• Externally Viewable LED Sensor Status Indicator (Ordinary Loc. Unit)</td>
<td>• Externally Viewable LED Sensor Status Indicator (Ordinary Loc. Unit)</td>
<td>• AC Model (PAC-30U) in 2-Wire Series Configuration</td>
<td></td>
</tr>
<tr>
<td>• Universal Power Supply</td>
<td>• Superior 0.5pF Sensitivity</td>
<td>• DC Models (PDC-30) in 3-Wire Sinking / Sourcing Configurations</td>
<td></td>
</tr>
<tr>
<td>• Superior 0.5pF Sensitivity</td>
<td>• Temperature Compensation</td>
<td>• Field Selectable Normally Open or Normally Closed</td>
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<tr>
<td>• Enhanced Temp. Compensation</td>
<td></td>
<td>• Economical</td>
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<tr>
<td></td>
<td></td>
<td>• LED Status Indicator</td>
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<td></td>
<td></td>
<td>• Adjustable Calibration</td>
<td></td>
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<tr>
<td><strong>OPTIONS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Hazardous Location Approvals for Gases and Dust</td>
<td>• Hazardous Location Approvals for Gases and Dust</td>
<td>• Mounting Well Converts 30mm to 1 1/4” NPT, Delrin®</td>
<td></td>
</tr>
<tr>
<td>• Split Architecture Model for High Temperatures or High Vibrations</td>
<td>• Split Architecture Model for High Temperatures or High Vibrations</td>
<td>• PDC-30 DC Models: 10-40 VDC - NPN (Current Sinking) Output</td>
<td></td>
</tr>
<tr>
<td>• Quick-Connect Tri-Clamp Process Connection</td>
<td>• Quick-Connect Tri-Clamp Process Connection</td>
<td>• PNP (Current Sourcing) Output</td>
<td></td>
</tr>
<tr>
<td>• Variety of Probe Variations for Chemical Compatibility, Food Grade, Abrasion Resistance</td>
<td>• Variety of Probe Variations for Chemical Compatibility, Food Grade, Abrasion Resistance</td>
<td>• PAC-30U AC Model: 20-265 VAC</td>
<td></td>
</tr>
<tr>
<td><strong>APPLICATIONS</strong></td>
<td></td>
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<tr>
<td>• Smart sensing maximizes reliability with material having low dielectrics and applications with wide temperature swings.</td>
<td>• Perfect for tight budgets where excellent performance is still required but without the advanced features that increase the cost.</td>
<td>• Use for sensing materials that are solid, liquid, conductive, non-conductive, in direct contact or non-contact, slow moving or in part counting mode.</td>
<td></td>
</tr>
<tr>
<td>• LED provides means for personnel to view sensor status without visiting control room.</td>
<td>• LED provides means for personnel to view sensor status without visiting control room.</td>
<td>• A good choice when the output is required to be electronic, buncous, long-life, and easily interfaced to other electronic equipment.</td>
<td></td>
</tr>
<tr>
<td>• Excellent performance in solids over 15 lbs/ft² (240kg/m²).</td>
<td>• Excellent performance in solids over 15 lbs/ft² (240kg/m²).</td>
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<tr>
<td><strong>SPECIFICATIONS</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Power:</strong> Universal 48-240 VAC, 24-48 VDC</td>
<td><strong>Power:</strong> 115 VAC; 230 VAC; 24 VDC</td>
<td><strong>Power:</strong> PAC-30U: 20-265 VAC; PDC-30: 10-40 VDC</td>
<td></td>
</tr>
<tr>
<td><strong>Ambient Temp.</strong></td>
<td><strong>Ambient Temp.</strong></td>
<td><strong>Operating Temp.</strong></td>
<td></td>
</tr>
<tr>
<td>40°F to 150°F (40°F to 65°C)</td>
<td>40°F to 150°F (40°F to 65°C)</td>
<td>-13°F to +176°F (-25°C to 80°C)</td>
<td></td>
</tr>
<tr>
<td><strong>Int. Bin Temp.</strong></td>
<td><strong>Int. Bin Temp.</strong></td>
<td><strong>Output:</strong> PAC-30U: N.O./N.C. field selectable; PDC-30: NPN or PNP</td>
<td></td>
</tr>
<tr>
<td>Alum mount: to +176°F (80°C); SS mount: to 400°F (204°C);</td>
<td>Alum mount: to +176°F (80°C); SS mount: to 400°F (204°C);</td>
<td>Mounting: 30mm thread</td>
<td></td>
</tr>
<tr>
<td>Split architecture probe: to 450°F (232°C)</td>
<td>Split architecture probe: to 450°F (232°C)</td>
<td>Load Current: PAC-30U: 10-500mA; PDC-30: 0-200mA</td>
<td></td>
</tr>
<tr>
<td><strong>Output Relay:</strong> DPDT, 5A @ 250 VAC or 30 VDC</td>
<td><strong>Output Relay:</strong> SPDT, 5A @ 250 VAC or 30 VDC</td>
<td><strong>Approvals:</strong> UL &amp; CSA: Ordinary Locations (PAC-30U only); CE Mark</td>
<td></td>
</tr>
<tr>
<td><strong>Mounting:</strong> 1-1/4” NPT or 1-1/2” BSPT alum, Optional 3/4” NPT 316SS</td>
<td><strong>Mounting:</strong> 1-1/4” NPT or 1-1/2” BSPT alum, Optional 3/4” NPT 316SS</td>
<td>Enclosure Protection: NEMA 4; IP66</td>
<td></td>
</tr>
<tr>
<td><strong>Pressure:</strong> 50-150 PSI (3.5 - 10 bar)</td>
<td><strong>Pressure:</strong> 50-150 PSI (3.5 - 10 bar)</td>
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<tr>
<td><strong>Approvals:</strong> CSA, Class I, II, CE Mark</td>
<td><strong>Approvals:</strong> CSA, Class I, II, CE Mark</td>
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<tr>
<td><strong>Enclosure Protection:</strong> NEMA 4; IP66</td>
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<tr>
<td><strong>AIRMATIC</strong></td>
<td>airmatic.com</td>
<td>215.333.5600</td>
<td><a href="mailto:infocenter@airmatic.com">infocenter@airmatic.com</a></td>
</tr>
<tr>
<td>POINT LEVEL</td>
<td>DURA VIBE™ MODEL PZP</td>
<td>DURA VIBE™ VIBRAROD</td>
<td>G, GX, GX-SS</td>
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</tr>
<tr>
<td><strong>VIBRATORY</strong></td>
<td>• Unaffected by Changes in Environment and Materials</td>
<td>• Economical, Yet Versatile Design</td>
<td>• Basic Pressure-Sensing Operation</td>
</tr>
<tr>
<td><strong>FEATURES</strong></td>
<td>• Exceptional Sensitivity with No Calibration Required</td>
<td>• Unaffected by Changes in Environment and Materials</td>
<td>• Electrically-Passive Sensing Method</td>
</tr>
<tr>
<td><strong>Industry-Leading Probe Strength:</strong> Diamond Shape</td>
<td>• Good Sensitivity with No Calibration Required</td>
<td>• Stainless Steel Single-Probe Design</td>
<td>• Reliable, Durable, and Low Maintenance Operation</td>
</tr>
<tr>
<td>Single-Probe with Gusset Reinforced Design</td>
<td>• Universal Power Supply</td>
<td>• Universal Power Supply</td>
<td>• Low-Profile, Non-Intrusive Mounting</td>
</tr>
<tr>
<td>Universal Power Supply</td>
<td>• Fail-Safe on Power Failure</td>
<td>• Fail-Safe on Power Failure</td>
<td>• Adjustable Sensitivity</td>
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<tr>
<td>• Adjustability Sensitivity</td>
<td>• Bi-color LED Status Indication</td>
<td>• Bi-color LED Status Indication</td>
<td>• Over-Pressure Protection</td>
</tr>
<tr>
<td><strong>OPTIONS</strong></td>
<td>• Probe Extensions Available: Cable Extension</td>
<td>• Pipe Extension Probes Available</td>
<td>• Hazardous Location Approvals for Dust</td>
</tr>
<tr>
<td>• Remote Electronics Design for High Vibration or High Temperatures (Probe up to 302°F (150°C) Process Temp.)</td>
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</tr>
<tr>
<td><strong>APPLICATIONS</strong></td>
<td>• Ideal choice when material properties or environmental conditions are variable</td>
<td>• Economical vibratory solution</td>
<td>• Excellent when facility personnel are expected to perform in-field troubleshooting and maintenance with virtually no prior training.</td>
</tr>
<tr>
<td>• Excellent sensitivity for materials down to 1.5 lbs/ft² (24 kg/m²)</td>
<td>• Ideal choice when material properties or environmental conditions are variable</td>
<td>• Provides “green” operation with no power consumption</td>
<td>• Provides environmentally-safe, “green” operation with no power consumption</td>
</tr>
<tr>
<td>• Tip sensitive probe eliminates false signals caused by product bridging between probe and vessel wall.</td>
<td>• Good sensitivity for materials down to 10 lbs/ft² (160 kg/m²)</td>
<td>• Low-profile eliminates need for internal baffles.</td>
<td>• TC-3: 15 - 60 lbs/ft² (240-960 kg/m²)</td>
</tr>
<tr>
<td>• Ordinary and Hazardous location approvals; Intrinsically safe probe</td>
<td>• Tip sensitive probe eliminates false signals caused by product bridging between probe and vessel wall.</td>
<td>• Good performance in solids from 10 - 60 lbs/ft² (160 - 960 kg/m²)</td>
<td>• TC-1: 45+ lbs/ft² (720 kg/m²)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Plugged chute applications</td>
<td>• Ideal for high level detection</td>
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<td></td>
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<td>• Works for open stock piles</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**

**Power:** 22-27VDC (±10%); 22-232VAC (±10%), 50/60 Hz

**Ambient Temp:** -22 to 149°F (-30 to 65°C)

**Process Temp:** -22 to 176°F (-30 to 80°C)

**High Temp. Probe:** -22 to 322°F (-30 to 170°C)

**Output Relay:**
- VAC: SPDT isolated; 3A @ 250VAC max
- VDC: SPDT isolated; 3A @ 30VDC max
- Process Connect: 1-1/2" NPT
- Pressure: 145 PSI (10 bar)
- Approvals (Integral Units):
  - CSA: Class II, Div. 1 & 2, Groups E, F, G
  - UL & CSA: Class II (GX, GX-SS); CE Mark Enclosure Protection: NEMA 4/ENCLO-SURE TYPE 4, IP66 (Model G only); IP65 (Model GX and GX-SS)

**Int. Bin Temp:**
- Neoprene: -40°F to +180°F (-40° to 82°C)
- Teflon®: -40°F to +250°F (-40° to 121°C)
- Teflon®: -40°F to +250°F (-40° to 121°C)

**Output:**
- SPDT, 15A @ 250 VAC
- SPDT, 15A @ 250 VAC

**Mounting:**
- Flange with 7.5" (190.5mm) bolt circle
- Pressure: Atmospheric only
- Approvals:
  - CSA: Class II, Div. 1 & 2, Groups E, F, G
  - UL & CSA: Class II (GX, GX-SS); CE Mark Enclosure Protection: NEMA 4/ENCLO-SURE TYPE 4, IP66 (Model G only); IP65 (Model GX and GX-SS)

**Operating Temp:**
- TC-3: -40°F to +175°F (-40° to 80°C)
- TC-1: -40°F to +250°F (-40° to 121°C)

**Output:**
- SPDT, 10A @ 250 VAC
- SPDT, 15A @ 250 VAC

**Mounting:**
- TC-3: suspend by chain, 3/4" (19mm) ID eyebolt
- TC-1: suspend by chain, 1-3/32" (27.7mm) ID eyebolt

**Approvals:**
- Ordinary Locations; CE Mark Enclosure Protection: NEMA 4; IP56

**Contact:**
- airmatic.com | 215.333.5600 | infocenter@airmatic.com
### Advanced Triboelectric
- Easy Auto Set-up Button to Automatically Configure Parameters / Alarms
- Exceptional and Reliable Sensitivity via Proven AC Triboelectric Technology with Advanced Algorithms to Filter Out Noise
- Excellent Repeatability Not Affected by Variations in Relative Humidity, Process Temperature or Pressure
- DustTrend™ ES Adds...
- Continuous Trend Measurements
- 4-20mA Analog Output and/or Enhanced Modbus(RS-485) output

### Bin Aeration
- Aeration Alternative to Vibration
- Quiet, Inexpensive, Non-Electrical Aeration Solution
- Simple Designs Facilitate Trouble-Free Operation
- Evasser Provides An Air Flow That Tends to Sweep the Vessel Wall
- Air Pad Comes in the Industry-Standard Low-Profile Footprint

### Features
- Connect with the Free Dust Config™ Software to Set Custom Alarm Points, View Live Activity Within the Duct, or Review Data History for up to a 24-hour Period
- Custom Specified Stainless Steel Probe Lengths from 4.75” (120mm) to 20” (508mm)
- Available Probe Extensions to Provide up to an Additional 2” (51mm) to 24” (610mm) of Probe Length
- Quick-Connect Mounting Kits

### Options
- Multiple Configurations Available
- Boot Options for Evasser:
  - White, Food Grade
  - Black, General Purpose
- Rectangular Air Pads:
  - Cotton or Fiberglass Diffuser

### Applications
- Provides monitoring of dust levels where it is critical to safety, maintenance, equipment operation, plant efficiency, environment, etc.
- Ideal for exhaust ducts on dust collectors, baghouses and cyclones.
- Use triboelectric technology as a cost-effective alternative to opacity monitoring.
- Exceptional sensitivity is capable of detecting minute amounts of material (less than what is visible by the human eye).

### Specifications
- **Power**: 95-240VAC (±10%), 50/60 Hz; 18-28VDC (±10%)
- **Starting Ambient Temp**: 4° to 140°F (-20° to 60°C)
- **Running Ambient Temp**: 40° to 140°F (-40° to 60°C)
- **Process Temp**: Max: 300°F (150°C) at probe loc.
- **Output (DustAlarm™):** Relay(2 Isolated SPDT) and/or RS-485(Modbus)
- **Output (DustTrend ES):** 4-20mA, Relay(2 Isolated SPDT) and/or RS-485(Modbus)
- **Mounting**: 1” Tri-Clamp Quick-Disconnect, 316 SS
- **Pressure**: 40 psi maximum
- **Approvals**: CE Mark
- **Enclosure Protection**: NEMA 4X, ENCLOSURE TYPE 4X, IP66

### Quantimass™
**In-Line Mass Flow Measurement**
Sensor location should be in an area where the sensor’s measurement energy will be exposed only to target materials that are fully suspended in the conveying air stream (pneumatic [dilute phase] or gravity conveying). Solid particulates should be evenly distributed in the air stream.

### Humicore™
**In-Line Moisture Measurement**
The sensor is designed to be installed in the production flow stream at a location that ensures the bulk material to be measured is fed over the sensor at a constant layer height.
## Features
- Non-Contact Flow Detection
- Non-Intrusive Flush Mounting
- Excellent Sensitivity
- Externally Viewable LED Sensor Status Indicator (SFD-2)
- Maintenance Free - No Moving Parts
- Relay Output (SFD-2) or Analog Output (SFI)
- Hazardous Location Approvals for Dust (Sensors Only)

## Options
- Electrical Enclosure for SFD-2 PS/Conditioning Board
- Saddle Clamp and Gasket
- 1 1/2" Mounting Adapters
- Tri-Clamp Adapters
- 1 1/4" NPT Lock Nut

## Applications
- Use in flow applications where the non-contact attributes of microwave technology can eliminate challenges associated with temperature, light, acoustics and pressure.
- Non-intrusive mounting will allow natural flow of material, and will eliminate any risk of material being damaged by striking a sensing probe.
- Senses Flow / No Flow conditions in gravity chutes and pneumatic lines.

## Specifications
Either Sensor:
- Ambient Temp: -40° to +185°F (-40° to 85°C)
- Process Temp: to +250°F (121°C)
- Pressure: Teflon®: 75 PSI (5bar) intermittent, Rynol® (or equiv): 300 PSI (20 bar)
- Mounting: 1-1/4" NPT
- Approvals: CSA®; Class II, Div. 1, E,F,G; CE Mark
- Enclosure Protection: NEMA 4, IP65
- SFD-2 Power Supply: Power: 100-240 VAC
- Operating Temp: -40° to +158°F (-40° to 70°C)
- Output Relay: DPDT, 5A @ 250 VAC, 30 VDC
- Approvals: CSA®; Ordinary Loc., CE Mark
- SFI Only:
- Output: Analog 4-20mA, Detection range based on application

### Process Data:
- **Pipe Diameter**: 1" to 12" (25mm to 300mm)
- **Particle Size**: 0.001 micron to 0.75" (1mm to 20mm)
- **Temperature**: Between 4°F to +194°F (-20 to +90°C)
- **Moisture**: Depending on product
- **Pressure**: Up to 6 bar (Optional up to 30 bar)
- **Sensor Dimensions**: 11.42"L x 2.36"W x 2.36"H (290 x 60 x 60mm)
- **Accuracy**: ± 1.0 to 3.0% typical
- **Power**: Controller - 115 VAC / 24 VAC/DC; 230 VAC / 24 VDC/DC; Transmitter - 24 VAC/DC

## Microwave Doppler
- Continuous In-Line Mass Flow Measuring Without the Use of Weight Scales
- Measure Flow of Quantities in Pneumatic Conveying & Free-Falling Processes
- Microwave Doppler Effect Technology
- Sturdy, Non-Intrusive Design
- Minimizes Maintenance
- Compact Size for Easy Installation Into Existing Processes
- Fast Measuring & Adjustable Sensitivity
- Polyamide 6.6 Sensor Process Face

## Microwave Field
- Continuous In-Line Moisture Measurement System Provides Real-Time Data
- Ensure Product Quality Through Moisture Control...Provide Optimal Moisture Content for Finished Product
- High Frequency Field Technology
- Measures Moisture Inside the Material Core...Not Just the Surface
- Compact Size; Easy Installation and Calibration
- Integrated Temperature Compensation

## High Frequency Field
- Choose from Ultra Version with a Controller for Local Interface & Data Logging or PRO Version with DIN-Rail Transmitter
- Standard or High Temperature Styles
- 304 SS or 316 SS Sensor Housing Construction

## HUMI Core™
- Installation locations include: conveyor belts, screw conveyors, silos, funnels, etc.
- Suitable for grain, feed, seed, cereal, flour, sugar, coal, sand, wood shavings, dried food, fertilizer, tobacco, powder, pigments, plastic granules, sand, cement & more.
- Limit dusty areas by monitoring & controlling material moisture levels to reduce cleaning and/or filtering costs.
AIRMATIC founded in 1944, is a woman-owned Industrial Distributor, with installation and maintenance capabilities, offering equipment, machinery, and shop supplies to the Industrial, Construction, Utility, Government, and Commercial Markets. Our products and services are sold through three business units:

The MATERIALS MANAGEMENT GROUP provides products and services to industries that convey, store, transport, and process powders and bulk solids from aggregates, cement, and chemicals to foods, grains, metals, power generation, and waste water treatment applications;

The SERVICE GROUP provides fabrication, installation, and maintenance services to improve bulk materials handling efficiency; mechanical clean-out services for silos and hoppers to eliminate material flow problems; and shop repair/rebuilding and modifications services of products sold by the Company.

The TOOL GROUP provides power tools, personal protective equipment, materials-handling equipment, shop equipment and MRO supplies used for production, fabrication, assembly, metal removal, maintenance, and storage in manufacturing, construction, utility, and commercial applications.

Our Customers tell us that by choosing AIRMATIC to solve their problems, they gain increased productivity, decreased costs, and a safer, cleaner work environment.

MONITOR TECHNOLOGIES LLC focus remains that of instrumentation for powder and bulk solids applications. They offer superior solutions in level monitoring, solids flow detection, moisture measurement, particle emission monitoring and bin aeration.