Measurement made easy

K-TEK Level products

Features
- Low Cost
- Totally Potted Electronics
- Built-In Static Protection
- Vibration Resistant
- DPDT Relay
- Ambient Temperatures Up to 185°F (85°C)
- NEMA 4 Enclosure
- 5, 10 or 15 Second Time Delay

Options
- Teflon or PVC Sheathed Probe or Cable
- Extended Lower Bushing
- Flanged Process Connections
- Epoxy Coated Aluminum Enclosure

Applications
Dry Bulk Applications
- High Level Alarm
- Low Level Alarm
- Plugged Chute Detection
- Fly Ash Hopper Level
- Pellets

Liquid Applications
- Granules
- Powders
- Chips
- Flakes

Special Applications
- High Temperature
- Corrosive Environments
- High Pressure
- Special Probe Materials
### Specifications

#### Environmental

- **Housing type**: Aluminum enclosure rated NEMA 4
- **Temperature**: Electronics: -40 to 185° F / -40 to 85°C Ambient
- **Dielectric**: Ideal: 10 or greater; Consult factory for probe selection on lower dielectric applications

#### Electrical

- **Electronic Unit Input Power**: 95-130 VAC, 50-60 Hz, 2 Watts; 9-35 VDC, 100 mA Max
- **Relay Contact Rating**: Resistive: 5 Amp, 240 VAC; 5 Amp, 30 VDC Inductive: 1/10 HP 125, 250 VAC
- **Sensitivity**: With an initial load of 30 pF, an increase of 2.5 pF can be detected.

#### Mechanical

- **Weight**: Unit with 10” Probe: 4 lbs.
- **Process Connection Category “2” Probe**: 3/4” NPT
- **Process Connection Category “1” Probe**: 1/2” NPT

### Dimensions

- **MIN. TURNING RADIUS**: 6.25 in.
- **5.19 in.**
- **3.40 in.**
- **4 in.**

### Ordering Information

#### A75.a.b.c.d.e.f.g.h.i.j:

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Option 1</th>
<th>Option 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Fly Ash Probe / 8” 316SS Inactive Sheath</td>
<td>D</td>
<td>B</td>
</tr>
<tr>
<td>6</td>
<td>Bare Covered Cable / 13” 316SS Weight</td>
<td>A</td>
<td>D</td>
</tr>
<tr>
<td>8</td>
<td>PVC Covered Cable / 13” Teflon® Weight</td>
<td>A</td>
<td>D</td>
</tr>
<tr>
<td>N</td>
<td>“Teflon® Covered Cable / 13” “Teflon® Weight</td>
<td>C</td>
<td>D</td>
</tr>
<tr>
<td>B</td>
<td>Macroprobe (3/4” OD Probe “Delrin® Bushing)</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>T</td>
<td>Macroprobe (3/4” OD Probe “Teflon® Bushing)</td>
<td>C</td>
<td>A</td>
</tr>
<tr>
<td>K</td>
<td>1-1/2” Quick Release Clamp Probe / 4” “Teflon® Bushing</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>L</td>
<td>1-1/2” Quick Release Clamp Probe / “Teflon® Sheathed Probe</td>
<td>A</td>
<td>A</td>
</tr>
<tr>
<td>R</td>
<td>“Teflon® Sheathed Probe / 316SS Mounting Nipple</td>
<td>C</td>
<td>A</td>
</tr>
<tr>
<td>S</td>
<td>“Teflon® Sheathed Probe / “Teflon® Mounting Nipple</td>
<td>C</td>
<td>D</td>
</tr>
</tbody>
</table>

*Registered Trademark of DuPont

#### Probe Category

- **1/2” NPT – 3/8” OD Rod**: 1
- **3/4” NPT – 1/2” OD Rod**: 2

#### Process Connection Type

- **None**: X
- **Flange Shipped Loose**: FL
- **Welded Flange**: WP

#### Process Connection Material

- **None**: X
- **316L Stainless Steel**: 316
- **Carbon Steel**: CST

#### Process Connection Size/Rating

- **None**: X
- **1 in. // ANSI / ASME Class 150 // Raised Face Flange**: R11
- **1.5 in. // ANSI / ASME Class 150 // Raised Face Flange**: R151
- **1 in. // ANSI / ASME Class 300 // Raised Face Flange**: R13
- **1.5 in. // ANSI / ASME Class 300 // Raised Face Flange**: R153
- **2 in. // ANSI / ASME Class 150 // Raised Face Flange**: R21
- **2 in. // ANSI / ASME Class 300 // Raised Face Flange**: R23
- **2.5 in. // ANSI / ASME Class 150 // Raised Face Flange**: R251
- **2.5 in. // ANSI / ASME Class 300 // Raised Face Flange**: R253
- **3 in. // ANSI / ASME Class 150 // Raised Face Flange**: R31
- **3 in. // ANSI / ASME Class 300 // Raised Face Flange**: R33
- **4 in. // ANSI / ASME Class 150 // Raised Face Flange**: R41
- **4 in. // ANSI / ASME Class 300 // Raised Face Flange**: R43
- **6 in. // ANSI / ASME Class 150 // Raised Face Flange**: R61
- **6 in. // ANSI / ASME Class 300 // Raised Face Flange**: R63
- **DN 25 // PN 16 // Raised Face Flange**: D2516
- **DN 25 // PN 25 // Raised Face Flange**: D2525
- **DN 40 // PN 16 // Raised Face Flange**: D4016
- **DN 40 // PN 25 // Raised Face Flange**: D4025
- **DN 50 // PN 16 // Raised Face Flange**: D5016
- **DN 50 // PN 25 // Raised Face Flange**: D5025
- **DN 65 // PN 16 // Raised Face Flange**: D6516
- **DN 65 // PN 25 // Raised Face Flange**: D6525
- **DN 80 // PN 16 // Raised Face Flange**: D8016
- **DN 80 // PN 25 // Raised Face Flange**: D8025
- **DN 100 // PN 16 // Raised Face Flange**: D10016
- **DN 100 // PN 25 // Raised Face Flange**: D10025
- **DN 150 // PN 16 // Raised Face Flange**: D15016
- **DN 150 // PN 25 // Raised Face Flange**: D15025
- **Greater than ANSI / ASME Class 300 // PN 25 Flange**: Z99
ORDERING INFORMATION (continued)

A75.a.b.c.d.e.f.g.h.i.j:

g  Housing Type
   A  Aluminum (STD) 1" FNPT Cable Connection
   P  PVC (not NEMA rated)

h  Tag
   X  None
   L  Stainless Steel Tags

i  Bushings
   X  None
   Z1  Delrin® Extended Lower Bushing (Probe type 1 and B only)
   Z2  PTFE Extended Lower Bushing (Probe type 2, T and K only)
   Z3  316 SS Extended, Inactive Sheath (Probe type 5 probe only)

j  Cable Connections
   X  None
   B  1" x 3/4" Reducing Bush
   MM  3/4" x M20 SS Adapter

Probe Lengths - Rigid Probe in Inches; Cable Probe in Feet

Services will follow the model code with / and will not be included on the device tag

Services
   GD1  Drawings for Approval - NOTE: Lead time will start after receipt of customer approved drawings
   GD2  Drawings for Record
   GD3  Certified as Built Drawings - NOTE: Lead time will start after receipt of Purchase Order
   CRA  Radiographic Examination on all Pressure containing Butt Welds / and all other welds are Liquid Dye Penetrant (Final Pass Only) (Per Tag)
   CNA  Liquid Dye Penetrant Examination on all Pressure containing Welds (Final Pass Only) (Per Tag)
   CHC  Positive Material Identification with Carbon Content
   CHD  Positive Material Identification without Carbon Content
   CP1  Hydrostatic Examination - (10 Minutes)
   C2  Material Monitoring with Inspection Certificate 3.1 acc. EN 10204
   GS1  Certificate of Origin
   GS2  Certificate of Origin Notarized by Local Chamber of Commerce
   GS3  Certificate of Origin Legalized by Specific Country Chamber of Commerce - Lead Time may be Extended depending on Country
   GS5  NAFTA Certificate
   GS6  EX-IM BANK Certificate (One per Tag)
   CU3  Certificate of Functionality
   CN1  NACE (MR 0103) Hardness Certificate (Requires C2 in Material Monitoring)

1 - Temperature / Pressure Codes

<table>
<thead>
<tr>
<th>Operating Temperature Codes</th>
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</tr>
</thead>
<tbody>
<tr>
<td>A -40 to 185°F / -40 to 85°C</td>
<td>A 1500 psi @ 77°F / 103 bar @ 25°C</td>
</tr>
<tr>
<td>B -40 to 320°F / -40 to 160°C</td>
<td>B Static Head Only (Consult Factory)</td>
</tr>
<tr>
<td>C -40 to 450°F / -40 to 230°C</td>
<td>C 150 psi / 10.3 bar</td>
</tr>
<tr>
<td>D 200 to 1400°F / 95 to 760°C</td>
<td>D 100 psi / 7 bar</td>
</tr>
</tbody>
</table>