Measurement made easy

K-TEK Level products

Features
- For Liquids, Gases & Small Granular Solids
- One Switch for Gas or Liquid Flow, Liquid Level, Interface Level or Temperature
- 316L Stainless Steel All Welded Construction Standard
- Explosion Proof, No Moving Parts
- Temperature Range -50 to 350°F / -46 to 177°C Standard
- Pressure to 4000 psig / 275 bar Standard

Options
- Exotic Alloys for Corrosive Applications
- Temperatures from -320 to 500°F / -195 to 260°C
- Extended Sensor
- Remote Mounting
- Flange Mounting
- Ceramic Glass To Metal Feedthrough Provides Secondary Pressure Boundry

Accessory
- Stainless steel flow tube adapter for small diameter pipe
## SPECIFICATIONS

### Sensor

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Materials of Construction</strong></td>
<td>316L Stainless Steel Standard, Exotic Alloys Optional</td>
</tr>
<tr>
<td><strong>Response Time</strong></td>
<td>No Flow to Flow: From 3 Seconds; Flow to No Flow: From 8 Seconds Level: +/- 1/8&quot;; Temperature: From 1 second</td>
</tr>
</tbody>
</table>
| **Operating Temperature**| -50 to 350°F / -46 to 177°C **Standard**  
Option: -320 to 500°F / -196 to 260°C |
| **Operating Pressure**   | Full Vacuum to 2000 psig / 137 bar **Standard**  
Options: 4,000 psig / 275 bar maximum  
10,000 psig / 689 bar maximum (HP Option) |
| **Repeatability**        | Flow: 0.5% of maximum flow rating at Constant Conditions **Standard**;  
Level: +/- 1/8"; Temperature: +/- 1°C |
| **Process Connection**   | 3/4" MNPT **Standard**  
Options: 1", 1-1/4", 1-1/2", 2" MNPT, Flanges, Retractable Probes |
| **Insertion Length**     | 1.8" / 45.7mm **Standard**  
Option: 1.2" / 30.5mm; Custom Lengths Available to 8 ft. (96 in, 2438mm) |

### Electronics

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
</table>
| **Housing**              | Powder Coated Aluminum **Standard**  
Optional: Dual Compartment Aluminum; Dual Compartment 316L SS |
| **Operating Temperature**| -50 to 140°F/-46 to 60°C Ambient  
Option: Remote Mounting of Electronics Up to 2000 ft. / 609 meters |
| **Power Input**          | 90-132 VAC, 50/60 Hz, 5.5 watts max  
Options: 24 VDC, 24 VAC, 208-240 VAC |
| **Relay Output**         | DPDT 8 amps @ 250 VAC |
| **Conduit Entry**        | 3/4" FNPT **Standard** |
| **Approvals**            | CL I, Div I, GP A,B,C,D; T3C Ta = 60°C  
CL II, III, Div 1, GP E,F,G; T3A Ta = 60°C; Type 4X |
| **Shipping Weight**      | 5 lbs standard |
**ORDERING INFORMATION:**

**TX.a.b.c.d.e.f.g.h.i.j.k.l.m:**

### Housing
- A1 Single Compartment Aluminum Housing Standard
- A1W Single Compartment Aluminum Housing with glass window cover
- A2 Dual Compartment Aluminum Housing
- A2W Dual Compartment Aluminum Housing with Glass Viewing Window
- S2 Dual Compartment 316L Stainless Steel Housing
- S2W Dual Compartment 316L Stainless Steel Housing with Glass Viewing Window

### Material Type
- S6 316L Stainless Steel Standard
- HB Hastelloy B-3
- HC Hastelloy C-276
- A20 Alloy 20
- AM Monel

### A) Process Connection – Threaded

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>0750</td>
<td>3/4” MNPT</td>
<td></td>
</tr>
<tr>
<td>1000</td>
<td>1” MNPT</td>
<td></td>
</tr>
<tr>
<td>1250</td>
<td>1-1/4” MNPT</td>
<td></td>
</tr>
<tr>
<td>1500</td>
<td>1-1/2” MNPT</td>
<td></td>
</tr>
<tr>
<td>2000</td>
<td>2” MNPT</td>
<td></td>
</tr>
</tbody>
</table>

### B) Process Connection – Flanged

<table>
<thead>
<tr>
<th>AABC</th>
<th>AA</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>1” Flange</td>
<td>1</td>
<td>Raised Face, 316L SS</td>
</tr>
<tr>
<td>15</td>
<td>1-1/2” Flange</td>
<td>2</td>
<td>Raised Face, Carbon Steel</td>
</tr>
<tr>
<td>20</td>
<td>2” Flange</td>
<td>3</td>
<td>Flat Face, 316L SS</td>
</tr>
<tr>
<td>30</td>
<td>3” Flange</td>
<td>4</td>
<td>Flat Face, Carbon Steel</td>
</tr>
<tr>
<td>40</td>
<td>4” Flange</td>
<td>5</td>
<td>Special</td>
</tr>
<tr>
<td>60</td>
<td>6” Flange</td>
<td>6</td>
<td>Special</td>
</tr>
</tbody>
</table>

### Insertion Length
- 18 1.8” / 45.7 mm Insertion Length Standard
- 12 1.2” / 30.5 mm Insertion Length

### Process Temperature
- H0 -50 to 350°F / -46 to 177°C Standard
- H1 -320 to 500°F / -196 to 260°C (Requires remote mounting of electronics)

### Approvals
- X None
- N2 FM & CSA Approvals

### Dual switch point
- X None
- DS Dual Switch Point Electronics with Millivolt Output

### Remote Electronics
- X None
- RJxxxx Remote Electronics with PVC Cable (200°F / 93.3°C) Specify cable length “xxxx” ft. (Max. Length 2000 ft. / 609 m)
- RFxxxx Remote Electronics with TEFLON® (a registered trademark of DuPont) Cable (900°F / 482°C process temperature) Specify cable length “xxxx” ft. (Max. Length 2000 ft. / 609 m)

### Flow Options
- X None
- HF High Flow Option (Requires 1” MNPT or 1-1/2” Flange or larger; for clean liquids only)

### High Pressure Options
- X None

### Packing Gland
- X None
- G1 Packing Gland for Retractable Probe, 50 psig / 3.4 bar Maximum
- G2 Packing Gland for Retractable Probe, 500 psig / 34.5 bar Maximum

### Hermetic Seal
- X None
- HS 5 Pin Hermetic Feed-through (not offered with Titanium)
### Service Codes

#### Engineering Documents
- **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

#### Liquid Dye Penetrant
- **CNA** Liquid Dye Penetrant Examination on all Pressure containing Welds (Final Pass Only) (Per Tag)
- **CNC** Liquid Dye Penetrant Examination on 10% of all Pressure containing Welds (Final Pass Only) (Per Tag)

#### Positive Material Identification
- **CHC** Positive Material Identification with Carbon Content
- **CHD** Positive Material Identification without Carbon Content

#### Hydrostatic Examination
- **CP1** Hydrostatic Examination - (10 Minutes)
- **CP2** Hydrostatic Examination with Chart Recording - (30 Minutes)

#### Additional Services
- **CAL** Calibration Certificate (Flow)

#### Material Monitoring
- **C2** Material Monitoring with Inspection Certificate 3.1 acc. EN 10204

#### Origin Documents
- **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
- **GS4** Korean Foreign Trade certificate
- **GS5** NAFTA Certificate
- **GS6** EX-IM BANK Certificate (One per Tag)

#### Certifications
- **CL** Certificate of Compliance
- **CU3** Certificate of Functionality
- **CPE** Calibration Certificate of Hydrotest Equipment (Requires CP1 or CP2 in Hydrostatic Examination)
- **CRN** Canadian Registration Number (Requires C2 in Material Monitoring and CP1 or CP2 in Hydrostatic Examination)

#### NACE
- **CN1** NACE (MR 0103) Hardness Certificate (Requires C2 in Material Monitoring)

Accessory: 316 Stainless Flow Tube part# TX-FLOWTUBE (to adapt standard TX to small diameter pipe sizes)

*Note: For available set points / flow calibration & conversion charts see MKT-0189-1*
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