FEATURES
- Pressure ranges from 30,000 to 72,000 psi
- Process connections geared for high pressure applications
- Stainless steel & Titanium construction
- High reliability

TYPICAL USES
- Water jet based cutting & cleaning
- High pressure chemical & petrochemical applications
- Pressure burst testing

SPECIFICATIONS

**Reference Temperature:** 72 °F ±2 °F (21 °C ±1 °C)

**Accuracy Class:** ±1.00% of span*
  *incl. nonlinearity, hysteresis, repeatability, zero-offset and final-offset

**Non Linearity:** BFSL ±0.30% of span

**Accuracy (TEB):** ±2.0% of span from -4 °F to 185 °F (-20 °C to 85 °C). Total Error Band Accuracy: includes the combined effects of non-linearity (Terminal Point Method), hysteresis, non-repeatability, temperature and zero offset and span setting errors

**Stability:** ≤ ±0.20% of span/year

ENVIRONMENTAL SPECIFICATIONS

**Humidity Effects:** 0 to 100% R.H., no effect

MIN/MAX TEMPERATURE LIMITS

<table>
<thead>
<tr>
<th>Storage</th>
<th>Process</th>
<th>Operating</th>
<th>Compensated</th>
</tr>
</thead>
<tbody>
<tr>
<td>-40 °F to 257 °F (-40 °C to 125 °C)</td>
<td>-40 °F to 257 °F (-40 °C to 125 °C)</td>
<td>-40 °F to 221 °F (-40 °C to 105 °C)</td>
<td>-4 °F to 185 °F (-20 °C to 85 °C)</td>
</tr>
</tbody>
</table>

FUNCTIONAL SPECIFICATIONS

- **Vibration Effects:** 20 gs, according to DIN EN 60068-2-6
- **Shock Effects:** 50 gs, according to DIN-EN 60068-2-27
- **Drop Test:** Withstands for 1 meter on concrete
- **Response Time:** < 2 msec
- **Position Effect:** < ±0.01% span

ELECTRICAL SPECIFICATIONS

- **Insulation Breakdown Voltage:** 50 Vdc
- **Insulation Resistance:** >100 megohms at 100 Vdc
### Output Signals Available

<table>
<thead>
<tr>
<th>Voltage Output</th>
<th>Excitation</th>
<th>Supply Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-10 Vdc, 3 wire</td>
<td>12-32 Vdc</td>
<td>10 mA</td>
</tr>
<tr>
<td>1-5V Vdc, 3 wire</td>
<td>8-32 Vdc</td>
<td>10 mA</td>
</tr>
<tr>
<td>Current Output</td>
<td></td>
<td>4-20 mA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>10-32 V DC</td>
</tr>
</tbody>
</table>

### Wetted Material
- Titanium

### Non-Wetted Material
- Stainless steel

### Approvals
- CE Declarations of conformity 2014/30/EU, 2014/68/EU

### Pressure Range Table

<table>
<thead>
<tr>
<th>Range</th>
<th>Code</th>
<th>Range</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>30,000 psi</td>
<td>30000#</td>
<td>2,000 bar</td>
<td>2000br</td>
</tr>
<tr>
<td>36,000 psi</td>
<td>36000#</td>
<td>2,500 bar</td>
<td>2500br</td>
</tr>
<tr>
<td>60,000 psi</td>
<td>60000#</td>
<td>4,000 bar</td>
<td>4000br</td>
</tr>
<tr>
<td>72,000 psi</td>
<td>72000#</td>
<td>5,000 bar</td>
<td>5000br</td>
</tr>
</tbody>
</table>

Consult factory for other ranges.

### Ordering Code

**Example:** KM467 F16 42 DC 60000# G

**Model**
- KM46 - KM46 Series, 2.0% Total Error Band (-20 ºC to 85 ºC)

**Pressure Connection Size**
- F16 - M16 x 1.5 Female
- M18 - M18 x 1.5 Male
- F09 - 3/8-18 UNF 2B Female

**Output Signal**
- 10 - 0-10 Vdc
- 15 - 1-5 Vdc
- 42 - 4-20 mA

**Electrical Termination**
- EN 175301-803 Form C (DIN 43650, Form C)
  - DC - No mating connector
  - N1 - Mating connector, no cable
  - N2 - Mating connector, 3 feet of cable
  - N8 - Mating connector with customer specified length
  - EN 175301-803 Form A (DIN 43650, Form A)
  - DN - No mating connector
  - D0 - Mating connector, no cable
  - D2 - Mating connector, 3 feet of cable
  - D1 - Mating connector with customer specified length

**M12 4-Pin**
- EW - No mating connector
- E0 - Mating connector, no cable
- E2 - Mating connector, 3 feet of cable
- E1 - Mating connector with customer specified length

**Pigtail - Shielded cable with PVC jacket and 24 AWG leads**
- F2 - With 3 feet of cable length
- F3 - With 10 feet of cable length
- P1 - Customer specified length

**Pressure Ranges (see range table on page 2)**
- 60000# - 60,000 psi

**Measurement Type**
- G - Gauge
**DIMENSIONS** in [ ] are millimeters

For reference only, consult Ashcroft for specific dimensional drawings

**DIN EN 175301-803-A Electrical Connection**

**DIN EN 175301-803-C Electrical Connection**
DIMENSIONS in [ ] are millimeters
For reference only, consult Ashcroft for specific dimensional drawings

DIN EN M12 x 1 Plug Electrical Connection

<table>
<thead>
<tr>
<th>Electrical Configuration</th>
<th>2-Wire</th>
<th>3-Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: UB + Red</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2: nc Green</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3: Out Black</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4: nc White</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2-Wire: UB + Red
3-Wire: Out Black

Cable Electrical Connection

<table>
<thead>
<tr>
<th>Electrical Configuration</th>
<th>2-Wire</th>
<th>3-Wire</th>
</tr>
</thead>
<tbody>
<tr>
<td>1: UB + Red</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2: Out Black</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3: nc White</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2-Wire: UB + Red
3-Wire: Out Black

F09 Fitting Shown
M18 Fitting Shown
F16 Fitting Shown