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**Lead Wire Type, 1/2 -20**

<table>
<thead>
<tr>
<th>FLOWMETRICS P/N</th>
<th>GAUSS</th>
<th>TEMP. RANGE</th>
<th>PRODUCT CODE</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>0010-35311-2G</td>
<td>150</td>
<td>-450 to 450°F</td>
<td>M-L36&quot; K1/2-20x1.0/1.6&quot; 5HT</td>
<td>0010-35311-150G</td>
</tr>
</tbody>
</table>

**CONSTRUCTION:**

- HOUSING: 303 STAINLESS STEEL
- SOLID EPOXY ENCAPSULATION

**LEAD WIRES:**

- 22 AWG, TFE INSULATED
- GOLD PLATED CONTACTS

**TEMPERATURE RANGE:**

-450° TO +450°F (-268° TO +232°C)

**SIGNAL OUTPUT:**

- SINEWAVE: MIN: 10mVPP  MAX: 10VPP
- HIGH SHOCK AND VIBRATION RESISTANCE
  (IMPACT: 25Gs MIN., VIBRATION: 2Gs AT 2000 Hz MIN.)

**CE COMPLIANCE:**

- EN 50081-1, EN 50082-1
Magnetic Pick up Coil

Connector Type, 1/2 - 20

<table>
<thead>
<tr>
<th>FLOWMETRICS P/N</th>
<th>GAUSS</th>
<th>PRODUCT CODE</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>0011-01C-2G</td>
<td>150</td>
<td>M-MO K1/2-20x0.9/3.3&quot;3T</td>
<td>0011-01C-150G</td>
</tr>
<tr>
<td>0011-01C-4G</td>
<td>350</td>
<td>M-MO K1/2-20x0.9/3.3&quot;3T</td>
<td>0011-01C-350G</td>
</tr>
<tr>
<td>0011-01C</td>
<td>650</td>
<td>M-MO K1/2-20x0.9/3.3&quot;3T</td>
<td>0011-01C</td>
</tr>
</tbody>
</table>

CONSTRUCTION:
HOUSING: 303 STAINLESS STEEL
SOLID EPOXY ENCAPSULATION

CONNECTOR:
MS: MS3102-10SL-4P
GOLD PLATED CONTACTS

TEMPERATURE RANGE:
-150° TO +330°F (-101° TO +165°C)

CE COMPLIANCE:
EN 50081-1, EN 50082-1

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Pick up coil – 2/18
# Magnetic Pick up Coil

## High Temp, Connector Type, 11/16 – 24

<table>
<thead>
<tr>
<th>A</th>
<th>L</th>
<th>CONNECTOR</th>
<th>GAUSS</th>
<th>PRODUCT CODE</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.3</td>
<td>3.5</td>
<td>MG</td>
<td>900</td>
<td>M-MG K11/16-24x1.3/3.5&quot; 8HT</td>
<td>0024-20</td>
</tr>
<tr>
<td>1.1</td>
<td>2.8</td>
<td>MG</td>
<td>350</td>
<td>M-MG K11/16-24x1.1/2.8&quot; 8HT</td>
<td>0024-20-350G</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>150</td>
<td>M-MG K11/16-24x1.1/2.8&quot; 8HT</td>
<td>0024-20-150G</td>
</tr>
<tr>
<td>1.3</td>
<td>3.5</td>
<td>B4</td>
<td>150</td>
<td>M-RTD-B4 K11/16-24x1.3/3.5&quot; 6HT</td>
<td>0024-31RTD-150G</td>
</tr>
</tbody>
</table>

## Construction:
- **Housing:** 303 SS
- **Encapsulation:** SOLID CERAMIC
- **Connector:** MG (2 PIN) MS3102-10SL-4P WITH GOLD PLATED CONTACTS
  B4 (4 PIN) MS3113-H8A-4P WITH GOLD PLATED CONTACTS

## Temperature Range:

- **8HT:** -450° to 850° F (-270° to 454° C)
  -330° to 850° F (-200° to 454° C) w/RTD

- **6HT:** -450° to 600° F (-270° to 315° C) (B4 CONNECTOR)
  -330° to 600° F (-200° to 315° C) (B4 CONNECTOR) w/RTD

## Temp Probe:
- RTD100, 100 ± 0.1 Ohm @ 0°C
  - Accuracy: ±0.3°C OR 0.6% Temp. Coef.: 0.00385 Ohm/Ohm/°C

## Signal Output:
- SINEWAVE: MIN: 10mVPP  MAX: 10VPP
- HIGH SHOCK AND VIBRATION RESISTANCE
  (IMACT: 25Gs MIN., VIBRATION: 2Gs AT 2000 Hz MIN.)

---

**EN 50081-1**
**EN 50082-1**
## Magnetic Pick up Coil

### High Temp, Lead Wire Type, 11/16 – 24

<table>
<thead>
<tr>
<th>FACE</th>
<th>TYPE</th>
<th>PRODUCT CODE</th>
<th>SPEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLUSH</td>
<td>COIL ONLY</td>
<td>M-L36&quot; K11/16-24x1.3/3.0&quot; 8HT</td>
<td>0025-20</td>
</tr>
<tr>
<td></td>
<td>W/ RTD</td>
<td>M-RTD-L36&quot; K11/16-24x1.3/3.0&quot; 8HT</td>
<td>0025-20RTD</td>
</tr>
</tbody>
</table>

**NOTE:** TO DESIGNATE GAUSS LEVEL (MAGNETIC LEVEL) OF ANY OF THE PRODUCTS ABOVE, ADD THE LEVEL TO THE P/N.

- 900 GAUSS VERSION P/N 0025-xx-900G
- 350 GAUSS VERSION P/N 0025-xx-350G
- 150 GAUSS VERSION P/N 0025-xx-150G

### Construction:

- **HOUSING:** 303 SS
- **ENCAPSULATION:** SOLID CERAMIC
- **LEAD WIRES:** MICA-GLASS INSULATED, 22 AWG
- **RTD VERSION:** TWO BUNDLES OF 2 LEADS EACH

### Temperature Range:

- -450° to 850° F (-270° to 454° C)
- -330° to 850° F (-200° to 454° C) w/RTD

### Temp Probe:

- RTD100, 100 ± 0.1 Ohm @ 0°C
- **ACCURACY:** ±0.3°C OR 0.6% Temp. Coef.: 0.00385 Ohm/Ohm/°C

### Signal Output:

- SINEWAVE: MIN: 10mVPP MAX: 10VPP

**HIGH SHOCK AND VIBRATION RESISTANCE**

- **IMACT:** 25Gs MIN., **VIBRATION:** 2Gs AT 2000 Hz MIN.
### Magnetic Pick up Coil

**Connector Type, 11/16 – 24**

<table>
<thead>
<tr>
<th>GAUSS</th>
<th>TEMP. PROBE</th>
<th>TEMP. RANGE</th>
<th>PRODUCT CODE</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>900</td>
<td>NO</td>
<td>-450 to 450° F</td>
<td>M-MS, K 11/16-24x2.25&quot;, 5HT</td>
<td>0026-55152</td>
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<tr>
<td>350</td>
<td></td>
<td>-150 to 450° F</td>
<td>M-MS, K 11/16-24x2.25&quot;, 5HT</td>
<td>0026-55152-350G</td>
</tr>
<tr>
<td>150</td>
<td>RTD100</td>
<td>-150 to 450° F</td>
<td>M-RTD-B4, K 11/16-24x2.25&quot;, 5TE</td>
<td>0026-5A452-150G</td>
</tr>
<tr>
<td>350</td>
<td>RTD100</td>
<td>-150 to 450° F</td>
<td>M-RTD-B4, K 11/16-24x2.25&quot;, 5TE</td>
<td>0026-5A452-350G</td>
</tr>
</tbody>
</table>

**Specification:**
- **Housing:** 303 Stainless Steel, Blindsheel Design, Hermetically Sealed, Cryogenic Construction, with Thermal Shock Resistant Solid Epoxy Encapsulation
- **Connector:** MS: MS 3102-10SL-4P, (MATE: MS 3106-10SL-4S)  
  Gold Plated Contacts
  B4: MS 3113-H8A-4P, (MATE: MS 3116-F8-4S)  
  Gold Plated Contacts
- **Temp. Probe:** RTD 100Ω; Accuracy: Class A  
  ±0.15 + 0.002*°T (°C)]
- **Signal Output:** SineWave: MIN: 10mVPP  
  MAX: 10VPP  
  High Shock and Vibration Resistance  
  (Impact: 25Gs MIN., Vibration: 2Gs AT 2000 Hz MIN.)
- **CE Compliance:** EN 50081-1, EN 50082-1

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# Magnetic Pick up Coil

**Lead Wire Type, 11/16 – 24**

<table>
<thead>
<tr>
<th>HOUSING STYLE</th>
<th>GAUSS</th>
<th>PRODUCT CODE</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>K STYLE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>900</td>
<td>M-L12&quot; K11/16-24x0.9/1.8&quot; 5HT</td>
<td>0027-55151</td>
<td></td>
</tr>
<tr>
<td>350</td>
<td>M-L12&quot; K11/16-24x0.9/1.8&quot; 5HT</td>
<td>0027-55151-350G</td>
<td></td>
</tr>
<tr>
<td>150</td>
<td>M-L12&quot; K11/16-24x0.9/1.8&quot; 5HT</td>
<td>0027-55151-150G</td>
<td></td>
</tr>
<tr>
<td><strong>H STYLE</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>900</td>
<td>M-L12&quot; H11/16-24x0.9/1.8&quot; 5HT</td>
<td>0027H-55151</td>
<td></td>
</tr>
<tr>
<td>350</td>
<td>M-L12&quot; H11/16-24x0.9/1.8&quot; 5HT</td>
<td>0027H-55151-350G</td>
<td></td>
</tr>
<tr>
<td>150</td>
<td>M-L12&quot; H11/16-24x0.9/1.8&quot; 5HT</td>
<td>0027H-55151-150G</td>
<td></td>
</tr>
</tbody>
</table>

**SPECIFICATION:**

- **HOUSING:** 303 STAINLESS STEEL, BLINDSHELL DESIGN, CRYOGENIC CONSTRUCTION WITH THERMAL SHOCK RESISTANT SOLID EPOXY ENCAPSULATION
- **LEAD WIRES:** WHITE, TFE 22 AWG, TWISTED
- **TEMP. RANGE:** -450 to 450°F (-270 to 232°C)
- **SIGNAL OUTPUT:** SINEWAVE: MIN: 10mVPP MAX: 10VPP HIGH SHOCK AND VIBRATION RESISTANCE (IMPACT: 25Gs MIN., VIBRATION: 2Gs AT 2000 Hz MIN.)
- **CE COMPLIANCE:** EN 50081-1, EN 50082-1

![K STYLE Diagram](image)

**K STYLE**

INTEGRAL STAINLESS STEEL FACE

11/16–24 UNEF MARKING

1.77

.85

12" MIN.

![H STYLE Diagram](image)

**H STYLE**

(SAME AS ABOVE EXCEPT AS NOTED)

11/16 HEX

CE

Marking

Pick up coil – 2/18
# Magnetic Pick up Coil

## Conduit Fitting 1/2” MNPT, 11/16-24

<table>
<thead>
<tr>
<th>GAUSS</th>
<th>TEMP. PROBE</th>
<th>TEMP. RANGE</th>
<th>PRODUCT CODE</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>900</td>
<td>NO</td>
<td>-450 to +450° F</td>
<td>M-L12&quot;, X11/16-24x1.8&quot;, 5HT</td>
<td>0033-55151</td>
</tr>
<tr>
<td>350</td>
<td>NO</td>
<td>-450 to +450° F</td>
<td>M-L12&quot;, X11/16-24x1.8&quot;, 5HT</td>
<td>0033-55151-350G</td>
</tr>
<tr>
<td>150</td>
<td>RTD100</td>
<td>-150 to +450° F</td>
<td>M-RTD100-L12&quot;, X11/16-24x1.8&quot;, 5TE</td>
<td>0033-5A151-150G</td>
</tr>
<tr>
<td>350</td>
<td>RTD100</td>
<td>-150 to +450° F</td>
<td>M-RTD100-L12&quot;, X11/16-24x1.8&quot;, 5TE</td>
<td>0033-5A151-150G</td>
</tr>
</tbody>
</table>

---

**CONSTRUCTION:**
- HOUSING: 303 SS
- SOLID EPOXY ENCAPSULATION

**COIL LEAD WIRE:** TFE WHITE, 22 AWG (x2)

**TEMP. PROBE:**
- RTD100, 100 ± 0.1Ω
- ACCURACY: ± 0.3°C or 0.6%
- Temp. Coef.: 0.00385 Ω/Ω/°C
- RTD LEAD WIRE, TFE 20 AWG
- COLOR CODE:
  - RED (x1)
  - BLACK (x2) (2 WIRES ARE PROVIDED FOR LEAD WIRE RESISTANCE COMPENSATION)

**SIGNAL OUTPUT:**
- SINEWAVE: MIN: 10mVPP   MAX: 10VPP
- HIGH SHOCK AND VIBRATION RESISTANCE
  - (IMPACT: 25Gs MIN., VIBRATION: 2Gs AT 2000 Hz MIN.)

**CE COMPLIANCE:** EN 50081-1, EN 50082-1

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Pick up coil – 2/18
# Magnetic Pick up Coil

## Water Proof, 11/16 – 24

<table>
<thead>
<tr>
<th>FLOWMETRICS P/N</th>
<th>GAUSS</th>
<th>TEMP. RANGE</th>
<th>CABLE AWG</th>
<th>0010-35311-2G</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>0033-W01</td>
<td>900</td>
<td>NO</td>
<td>18/2</td>
<td>M-LW480, XY 11/16-24x2.7&quot;, 1TE, SPCL</td>
<td>0033-W01</td>
</tr>
<tr>
<td>0033-W02-4G</td>
<td>350</td>
<td>NO</td>
<td>18/2</td>
<td>M-LW480, XY 11/16-24x2.7&quot;, 1TE SPCL</td>
<td>0033-W02-350G</td>
</tr>
<tr>
<td>0033-W03-2G</td>
<td>150</td>
<td>NO</td>
<td>18/2</td>
<td>M-LW480, XY 11/16-24x2.7&quot;, 1TE, SPCL</td>
<td>0033-W03-150G</td>
</tr>
<tr>
<td>0033-W04</td>
<td>900</td>
<td>RTD100</td>
<td>18/4</td>
<td>M-RTD100-LW480, XY 11/16-24x2.7&quot;, 1TE, SPCL</td>
<td>0033-W04</td>
</tr>
</tbody>
</table>

### SPECIFICATIONS:

- **HOUSING:** 303 STAINLESS STEEL, W/ SOLID EPOXY ENCAPSULATION
- **THERMAL SHOCK RESISTANT**

### REPLACEABLE CABLE:

- **NEOPRENE SERVICE CORD SVO, BLACK, 18 AWG (-40 to 90°C)**
- **SEALED FOR UNDERWATER SERVICE, TO 100 PSI MIN., NEMA 4 & 6**
- **HIGH SIGNAL OUTPUT**
- **HIGH SHOCK AND VIBRATION RESISTANCE**
  - (IMPACT: 25Gs MIN., VIBRATION: 2Gs AT 2000 Hz MIN.)

### CE COMPLIANCE:

- EN 50081-1, EN 50082-1

### OPTIONS:

- **INTERNAL TEMPERATURE PROBE, SELECT:**
  - 100 Ohm RTD or 10 kOhm NTC
### Magnetic Pick up Coil

**Intrinsically Safe, Connector Type, 11/16-24**

<table>
<thead>
<tr>
<th>GAUSS</th>
<th>PRODUCT CODE</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>130-170</td>
<td>M-IS-MO K11/16-24x0.9/2.3&quot; (2K FPS)</td>
<td>IS40-K307A1-150G</td>
</tr>
<tr>
<td>340-370</td>
<td>M-IS-MO K11/16-24x0.9/2.3&quot; (2K FPS)</td>
<td>IS40-K307A1-350G</td>
</tr>
</tbody>
</table>

---

**SPECIFICATIONS:**

- **RESISTANCE:** 1600 - 2100 Ω
- **MAGNETIZATION:** PER TABLE ABOVE
- **CONNECTOR:** MS3102A10SL-4P
  - 2 GOLD PLATED PINS
- **TEMPERATURE CLASS & RANGE:**
  - **T5:** -40 TO 85°C
  - **T6:** -40 TO 65°C
- **CONSTRUCTION:** 300 SERIES STAINLESS STEEL
  - SOLID EPOXY ENCAPSULATION

**CERTIFICATIONS:**

PLEASE REFER TO INSTALLATION INSTRUCTION DOCUMENT # 85045 AND MARKING ON PRODUCT FOR APPROPRIATE CERTIFICATION INFORMATION.

**INSTALLATION:**

CAUTION: THIS SENSOR MUST BE INSTALLED WITH AN APPROVED BARRIER AND FOLLOW THE DETAILS SPECIFIED IN THE INSTALLATION INSTRUCTION DOCUMENT # 85045. REFER TO BULLETIN 4003 FOR RECOMMENDED BARRIERS.
# Magnetic Pick up Coil

**Intrinsically Safe, Lead Wire Type, 11/16-24**

<table>
<thead>
<tr>
<th>HOUSING STYLE</th>
<th>GAUSS</th>
<th>PRODUCT CODE</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>K Style (Knurl)</td>
<td>130 - 170</td>
<td>M-IS-L12&quot; K11/16-24x0.9/1.8&quot; (2K FPS)</td>
<td>IS41-K307A1-150G</td>
</tr>
<tr>
<td></td>
<td>340 - 370</td>
<td>M-IS-L12&quot; K11/16-24x0.9/1.8&quot; (2K FPS)</td>
<td>IS41-K307A1-350G</td>
</tr>
<tr>
<td>X Style (NPT)</td>
<td>130 - 170</td>
<td>M-IS-L12&quot; X11/16-24x0.7/1.9&quot; (2K FPS)</td>
<td>IS41-X307A1-150G</td>
</tr>
<tr>
<td></td>
<td>340 - 370</td>
<td>M-IS-L12&quot; X11/16-24x0.7/1.9&quot; (2K FPS)</td>
<td>IS41-X307A1-350G</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS:**

- **RESISTANCE:** 1600 - 2100 Ω
- **MAGNETIZATION:** PER TABLE ABOVE
- **LEAD WIRES:** 22 AWG, TFE INSULATED SINGLE LEADS
- **TEMPERATURE CLASS & RANGE:** T5 -40 TO 85°C
- **CONSTRUCTION:** 300 SERIES STAINLESS STEEL SOLID EPOXY ENCAPSULATION

**CERTIFICATIONS**

PLEASE REFER TO INSTALLATION INSTRUCTION DOCUMENT # 85045 AND MARKING ON PRODUCT FOR APPROPRIATE CERTIFICATION INFORMATION.

**INSTALLATION**

CAUTION: THIS SENSOR MUST BE INSTALLED WITH AN APPROVED BARRIER AND FOLLOW THE DETAILS SPECIFIED IN THE INSTALLATION INSTRUCTION DOCUMENT # 85045. REFER TO BULLETIN 4003 FOR RECOMMENDED BARRIERS.
Magnetic Pick up Coil

85045 Installation Instruction, Intrinsically Safe

**Non-Hazardous Location**

**I.S. Barrier**

See note 1

- V\(_{\text{max}}\), Ul ≥ U\(_0\), Voc or Vt
- I\(_{\text{max}}\), Il ≥ I\(_0\), Isc or It
- Co or Ca ≥ C + Cc
- Lo or La ≥ U + Lc
- Pi or Po ≤ Pi

**Hazardous Location**

- V\(_{\text{max}}\), Ul = 30 Vdc
- I\(_{\text{max}}\), Il = 100 mA
- C1 = 0 µF
- L1 = 0 mH max.
- P\(_{\text{max}}\), Pi = 0.66 watts

**Certifications for IS40A & IS41A**

**ATEX:**

- II 1 G Ex ia IIC T6...T4 Ga
- FM08ATEX0066X

**IECEx:**

- Ex ia IIC T6...T4 Ga
- IECEx FMG 16.0003X
- T4 @ -40°C ≤ Tamb ≤ +100°C
- T5 @ -40°C ≤ Tamb ≤ +85°C
- T6 @ -40°C ≤ Tamb ≤ +65°C

**CE:**

- Compliance with
  - EN50081-1, EN50082-1
- FM08ATEX0066X
- IECEx FMG 16.0003X
- CE: Compliance with
  - EN50081-1, EN50082-1

**NOTES:**

1. Barrier must satisfy the electrical requirements listed above.
   Barrier manufacturer’s installation drawing must be followed when installing the system.
   For US installations, the barrier configuration must be FM Global approved.
   See Bulletin 4003 for recommended barriers.

2. Installation to be in accordance with the following standards:
   for US installations follow ANSI/ISA RP12.6 and the National Electrical Code ANSI/NFPA 70,
   for Canadian installations follow the Canadian Electrical Code,
   for ATEX installations follow EN 60079-14,
   for IECEx installations follow IEC 60079-14.

3. Control Equipment connected to associated equipment must not use or generate more than 250V.

4. Sensor must be mounted as part of a bonded structure.

5. Sensor should be de-energized before separating connector and sensor.

6. Lead Wires: Black and/or White

**CONNECTOR:**

- **MO**
  
  Male: Amphenol MS30106A/OSL-45

- **B**
  
  Male: Amphenol MS3116FB-2S

- **MC3**
  
  Male: Turck KB 3T

- **MD4**
  
  Male: Turck RX 4.4T
Magnetic Pick up Coil

Noise Cancellation, Connector Type, 11/16-24

<table>
<thead>
<tr>
<th>FLOWMETRICS P/N</th>
<th>GAUSS</th>
<th>PRODUCT CODE</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>0437-01</td>
<td>900</td>
<td>M-NC-MS3, H 11/16-24x2.8&quot;, 5HT</td>
<td>0437-01</td>
</tr>
<tr>
<td>0437-01-4G</td>
<td>350</td>
<td>M-NC-MS3, H 11/16-24x2.8&quot;, 5HT</td>
<td>0437-01-350G</td>
</tr>
<tr>
<td>0437-01-2G</td>
<td>150</td>
<td>M-NC-MS3, H 11/16-24x2.8&quot;, 5HT</td>
<td>0437-01-150G</td>
</tr>
</tbody>
</table>

THIS SPECIAL PICKUP IS DESIGNED TO WORK IN VERY NOISY ENVIRONMENTS AND MUST BE USED IN CONJUNCTION WITH THE 4021 TYPE II SERIES PREAMP.

CONSTRUCTION:
- HOUSING: 303 SS
- SOLID EPOXY ENCAPSULATION
- MS-3102-10SL-3P
- MS-TYPE, 3 PIN, SEALED
- GOLD PLATED CONTACTS

TEMPERATURE RANGE: -450° to 450° F (-270° to 232° C)

CE COMPLIANCE: EN 50081-1, EN 50082-1
**RF Pick up Coil**

**Connector Type, 11/16 – 24**

<table>
<thead>
<tr>
<th>FLOWMETRICS P/N</th>
<th>TEMP. PROBE</th>
<th>TEMP. RANGE</th>
<th>PRODUCT CODE</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>0059-34111</td>
<td>NO</td>
<td>-250° F to +400° F</td>
<td>RF10-MS, K11/16-24x0.6/2.0&quot; 4HT</td>
<td>0059-34111</td>
</tr>
<tr>
<td>0059-35111</td>
<td>NO</td>
<td>-450° F to +450° F</td>
<td>RF10-MS, K11/16-24x0.6/2.0&quot; 5HT</td>
<td>0059-35111</td>
</tr>
<tr>
<td>0059-3A411</td>
<td>RTD100</td>
<td>-150 to +450° F</td>
<td>RF10-RTD100-B4, K11/16-24x0.6/2.0&quot; 5TE</td>
<td>0059-3A411</td>
</tr>
</tbody>
</table>

**Construction:**
- **Housing:** 303 SS
- **Solid Epoxy Encapsulation**

**Connector:**
- **MS 3102-10SL-4S**
  - 2 PIN SEALED TYPE
  - GOLD PLATED CONTACTS
  - MATES WITH: MS 3106-10SL-4S

- **B4: MS 3113-H8C-4P, 4 PIN BAYONET TYPE**
  - GOLD PLATED CONTACTS
  - MATES WITH: MS 3116-H8C-4P

**Temp. Probe:**
- **RTD100, 100 ± 0.1Ω**
- **Accuracy:** ± 0.3°C or 0.6%
- **Temp. Coef.:** 0.00385 Ω /Ω/°C

- **High Signal Output**
- **High Shock and Vibration Resistance**
  (Impact: 25Gs MIN., Vibration: 2Gs AT 2000 Hz MIN.)

**CE Compliance:**
- EN 55011, EN 50082-2
RF Pick up Coil

Lead Wire, Conduit Fitting 1/2” MNPT, 11/16-24

<table>
<thead>
<tr>
<th>FLOWMETRICS P/N</th>
<th>TEMP. PROBE</th>
<th>TEMP. RANGE</th>
<th>PRODUCT CODE</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>0066-34111</td>
<td>NO</td>
<td>-250° F to +400° F</td>
<td>RF10-L12&quot;, X 11/16-24x1.8&quot;, 4HT</td>
<td>0066-34111</td>
</tr>
<tr>
<td>0066-35111</td>
<td>NO</td>
<td>-450° F to +450° F</td>
<td>RF10-L12&quot;, X 11/16-24x1.8&quot;, 5HT</td>
<td>0066-35111</td>
</tr>
<tr>
<td>0066-3A111</td>
<td>RTD100</td>
<td>-150 to +450° F</td>
<td>RF10-RTD100-L12&quot;, X 11/16-24x1.8&quot;, 5TE</td>
<td>0066-3A111</td>
</tr>
</tbody>
</table>

CONSTRUCTION:
- HOUSING: 303 SS
- LEAD WIRE: WHITE, TFE 22 AWG, TWISTED
- TEMP. PROBE: RTD100, 100 ± 0.1Ω
- ACCURACY: ± 0.3°C or 0.6%
- Temp. Coef.: 0.00385 Ω/Ω/°C

HIGH SIGNAL OUTPUT
HIGH SHOCK AND VIBRATION RESISTANCE
(IMPACT: 25Gs MIN., VIBRATION: 2Gs AT 2000 Hz MIN.)

CE COMPLIANCE: EN 55011, EN 50082-2
**RF Pick up Coil**

*High Temp, Lead wire Type, 11/16-24*

*High Temp, Connector Type, 11/16-24*

<table>
<thead>
<tr>
<th>TERMINATION</th>
<th>PRODUCT CODE</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLYING LEADS</td>
<td>RF4-L36&quot; K11/16-24x0.8/1.8&quot; 8HT</td>
<td>0067-11</td>
</tr>
<tr>
<td>2 PIN CONNECTOR</td>
<td>M-MO K1/2-20x0.9/3.3&quot;3T</td>
<td>0068-11</td>
</tr>
</tbody>
</table>

**CONSTRUCTION:**

- HOUSING: 303 SS
- ENCAPSULATION: SOLID CERAMIC
- LEAD WIRES: MICA-GLASS INSULATED, 22 AWG
- CONNECTOR: 2 PIN GLASS SEALED MS3102-10SL-4P

**TEMPERATURE RANGE:**

8HT: -450° to 750° F (-270° to 400° C)

**CE COMPLIANCE:**

EN 55011, EN 50082-2

**NOTE:**

1. MUST BE USED IN CONJUNCTION WITH A 4013 HS TYPE RF PREAMP
2. 8HT PICKUP HAS ~20% REDUCED SENSITIVITY COMPARED TO STANDARD 450°F PICKUPS.
Digispec RF

RF With Pulse Output, Connector Type, 11/16-24

<table>
<thead>
<tr>
<th>VO, PULSE OUT</th>
<th>FEATURE</th>
<th>PRODUCT CODE</th>
<th>MARKING #</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 5 V, NPN @ ≤ 20mA sink</td>
<td>50 kHz</td>
<td>RF-5Vo HS 50kHz-MO3 K11/16-24x1.1/2.8&quot; 2TE</td>
<td>FM DR-001-50kHz</td>
<td>0097-11C00</td>
</tr>
<tr>
<td></td>
<td>w/ LED</td>
<td>RF-5Vo LED-MO3 K11/16-24x1.1/2.8&quot; (100°C)</td>
<td>FM DR-001L</td>
<td>0097-11A00</td>
</tr>
<tr>
<td></td>
<td>w/ RTD</td>
<td>RF-5Vo HS RTD-B6 K11/16-24x1.1/2.8&quot; 3TE</td>
<td>FM DR-001RTD</td>
<td>0097-5A100</td>
</tr>
<tr>
<td></td>
<td>w/ RTD &amp; LED</td>
<td>RF-5Vo LED RTD-B6 K11/16-24x1.1/2.8&quot; (100°C)</td>
<td>FM DR 001LRTD</td>
<td>0097-5AA00</td>
</tr>
<tr>
<td>0 - 10 V, NPN @ ≤ 20mA sink</td>
<td>w/ LED</td>
<td>RF-10Vo LED-MO3 K11/16-24x1.1/2.8&quot; (100°C)</td>
<td>FM DR-003L</td>
<td>0097-11B00</td>
</tr>
<tr>
<td>0 - Vs, OC, PNP @ ≤ 20mA source</td>
<td>w/ LED</td>
<td>RF-Vs OC PNP LED-MO3 K11/16-24x1.1/2.8&quot; (100°C)</td>
<td>FM DR-004L</td>
<td>0097-11D00</td>
</tr>
<tr>
<td>0 - Vs, OC,NPN @ ≤ 20mA sink</td>
<td>w/ LED</td>
<td>RF-Vs OC LED-MO3 K11/16-24x1.1/2.8&quot; (100°C)</td>
<td>FM DR-005L</td>
<td>0097-11E00</td>
</tr>
</tbody>
</table>

OPERATING FREQUENCY: ≤ 0.5 Hz TO 5000 Hz
DEPENDING ON TARGET MASS AND AIR GAP

CONSTRUCTION:
HOUSING: 303 SS, SOLID EPOXY ENCAPSULATION
CONNECTOR (GOLD PLATED CONTACTS)
MO3: MS-3102-10SL-3P MATE: MS-3106-10SL-3S
B6: PT02A-10-6P MATE: PT06A-10-6S
HIGH SHOCK AND VIBRATION RESISTANCE
(IMPACT: 25Gs MIN., VIBRATION: 2Gs AT 2000 Hz MIN.)

SUPPLY VOLTAGE: 11 - 30 VDC @ ≤ 25mA (≤ 18mA max for OC versions)
TEMPERATURE RANGE:
LED: -40° to +212° F (-40° to +100° C)
2TE: -40° to +250° F (-40° to +120° C)
3TE: -40° to +284° F (-40° to +140° C)
TEMPERATURE PROBE: RTD 100Ω; ACCURACY: CLASS A [±0.15 +0.002*T (°C)]
CE COMPLIANCE:
EN 55011, EN 50082-2
**Digispec RF**

**RF With Pulse Output, Lead Wire Type, 11/16-24**

<table>
<thead>
<tr>
<th>VO, PULSE OUT</th>
<th>FEATURE</th>
<th>PRODUCT CODE</th>
<th>MARKING #</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 - 5 V, NPN @ ≤ 20mA sink</td>
<td>w/ LED</td>
<td>RF-5Vo LED-L12&quot; K11/16-24x1.1/2.3&quot; (100°C)</td>
<td>FM DR-001LX</td>
<td>0098-11A01</td>
</tr>
<tr>
<td></td>
<td>w/ RTD</td>
<td>RF-5Vo HS RTD-L12&quot; K11/16-24x1.1/2.3&quot; 3TE</td>
<td>FM DR-001RTDX</td>
<td>0098-1A101</td>
</tr>
<tr>
<td></td>
<td>w/ RTD &amp; LED</td>
<td>RF-5Vo LED RTD-L12&quot; K11/16-24x1.1/2.3&quot; (100°C)</td>
<td>FM DR-001LRTDX</td>
<td>0098-1AA01</td>
</tr>
<tr>
<td>0 - 10 V, NPN @ ≤ 20mA sink</td>
<td>w/ LED</td>
<td>RF-10Vo LED-L12&quot; K11/16-24x1.1/2.3&quot; (100°C)</td>
<td>FM DR-003LX</td>
<td>0098-11B01</td>
</tr>
<tr>
<td>0 - Vs, OC, PNP @ ≤ 20mA source</td>
<td>w/ LED</td>
<td>RF-Vs OC PNP LED-L12&quot; K11/16-24x1.1/2.3&quot; (100°C)</td>
<td>FM DR-004LX</td>
<td>0098-11D01</td>
</tr>
<tr>
<td>0 - Vs, OC, NPN @ ≤ 20mA sink</td>
<td>w/ LED</td>
<td>RF-Vs OC LED-L12&quot; K11/16-24x1.1/2.3&quot; (100°C)</td>
<td>FM DR-005LX</td>
<td>0098-11E01</td>
</tr>
</tbody>
</table>

**OPERATING FREQUENCY:** ≤ 0.5 Hz TO 5000 Hz

DEPENDING ON TARGET MASS AND AIR GAP

**CONSTRUCTION:**

HOUSING: 303 SS, SOLID EPOXY ENCAPSULATION

20 AWG, TFE INSULATED

**LEAD WIRES:**

HIGH SIGNAL OUTPUT

HIGH SHOCK AND VIBRATION RESISTANCE

(IMPACT: 25Gs MIN., VIBRATION: 2Gs AT 2000 Hz MIN.)

**SUPPLY VOLTAGE:** 11 - 30 VDC @ ≤ 25mA (≤ 18mA max for OC versions)

**TEMPERATURE RANGE:**

LED: -40° to +212° F (-40° to +100° C)

2TE: -40° to +250° F (-40° to +120° C)

3TE: -40° to +284° F (-40° to +140° C)

**TEMPERATURE PROBE:** RTD 100Ω; ACCURACY: CLASS A [±0.15 +0.002*T (°C)]

**CE COMPLIANCE:** EN 55011, EN 50082-2

**LEAD WIRE ASSIGNMENTS**

RED: SUPPLY POWER

BLACK: COMMON

WHITE: OUTPUT SIGNAL

SECOND BUNDLE (RTD feature only):

RED: RTD

BLACK x2: RTD

(TIED TOGETHER FOR LEAD WIRE RESISTANCE COMPENSATION)
## Digispec RF

**RF/ HFL With, Pulse Output, Connector Type, 1/2-20**

<table>
<thead>
<tr>
<th>FLOWMETERS P/N</th>
<th>Vs Supply Voltage</th>
<th>Vo Pulse Out</th>
<th>PRODUCT CODE</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>0425-01</td>
<td>7 - 30 VDC @ 18 mA max.</td>
<td>0 -5 V, NPN 25 mA sink</td>
<td>RF-Vo-LED-MO3 K 1/2-20x1.0/3.3”, 2TE</td>
<td>0425-01</td>
</tr>
<tr>
<td>0425-02</td>
<td>0 -Vs, OC, PNP 20 mA source</td>
<td>RF-Vs PNP LED-MO3, K 1/2-20x1.0/3.3”, 2TE</td>
<td>0425-02</td>
<td></td>
</tr>
<tr>
<td>0425-22</td>
<td>7 - 30 VDC @ 20 mA max.</td>
<td>0 -Vs, OC, PNP 20 mA source</td>
<td>HFL-Vs PNP LED-MO3 K 1/2-20x1.0/3.3”, 2TE</td>
<td>0425-22</td>
</tr>
</tbody>
</table>

**SENSOR TYPE:**
- DIGISPEC RF SENSOR WITH LED INDICATOR
- HFL SENSOR WITH LED INDICATOR

**CONSTRUCTION:**
- HOUSING: 303 OR 304 SS, INCLUDING FACE
- SOLID EPOXY ENCAPSULATION
- POLARITY PROTECTED
- CONNECTOR: MS3: MS-3102-10SL-3P

**TEMPERATURE RANGE:**
-40° to 257° F (-40° to 125° C)

**CE COMPLIANCE:**
EN 55011, EN 50082-2

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Pick up coil – 2/18

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Digispec RF

Intrinsically Safe, Connector Type, 11/16-24

<table>
<thead>
<tr>
<th>OUTPUT TYPE</th>
<th>PRODUCT CODE</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-5V, NPN</td>
<td>RF-IS-5Vo-MO3 K11/16-24x1.1/2.8&quot;</td>
<td>IS100-K3111</td>
</tr>
<tr>
<td>0-10V, NPN</td>
<td>RF-IS-10Vo-MO3 K11/16-24x1.1/2.8&quot;</td>
<td>IS100-K3112</td>
</tr>
<tr>
<td>0-Vs, NPN OC</td>
<td>RF-IS-Vs OC-MO3 K11/16-24x1.1/2.8&quot;</td>
<td>IS100-K3114</td>
</tr>
</tbody>
</table>

SPECIFICATIONS

Supply Voltage & Current:
- 8-30Vdc @ ≤ 15mA

Output Voltage:
- See table above
- (20 mA max. current sink)
- Reverse polarity protected

Frequency Range:
- ≥ 0.5 Hz to ≤ 5 kHz

Air Gap:
- ≤ .20”
- Depending on target mass

Connector:
- MS3102A10SL-3P
- 3 Gold Plated Pins

Temperature
- T5 -40 to 85°C
- T6 -40 to 65°C

Construction:
- 300 Series Stainless Steel
- Solid Epoxy Encapsulation

CERTIFICATIONS

Please refer to Installation Instruction Document # 85047 and marking on product for appropriate certification information.

INSTALLATION

CAUTION: This sensor MUST be installed with an approved barrier and follow the details specified in the Installation Instruction Document # 85045. Refer to Bulletin 4003 for recommended barriers.
**Digispec RF**

**Intrinsically Safe, Lead Wire Type, 11/16-24**

<table>
<thead>
<tr>
<th>OUTPUT TYPE</th>
<th>PRODUCT CODE</th>
<th>P/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-5V, NPN</td>
<td>RF-IS-5Vo-LS120&quot; K11/16-24x1.1/2.3&quot;</td>
<td>IS101-K3131</td>
</tr>
<tr>
<td>0-10V, NPN</td>
<td>RF-IS-10Vo-LS120&quot; K11/16-24x1.1/2.3&quot;</td>
<td>IS101-K3132</td>
</tr>
<tr>
<td>0-Vs, NPN OC</td>
<td>RF-IS-Vs OC-LS120&quot; K11/16-24x1.1/2.3&quot;</td>
<td>IS101-K3134</td>
</tr>
</tbody>
</table>

**SPECIFICATIONS**

- **Supply Voltage & Current:** 8-30Vdc @ ≤ 15mA
- **Output Voltage:** See table above (20 mA max. current sink) Reverse polarity protected
- **Frequency Range:** ≥ 0.5 Hz to ≤ 5 kHz
- **Air Gap:** ≤ 0.20" Depending on target mass
- **Cable:** 22 AWG, PVC insulated 3 conductor shielded cable
- **Temperature Class & Range:** T5 -40 to 85°C  T6 -40 to 65°C
- **Construction:** 300 Series Stainless Steel Solid Epoxy Encapsulation

**CERTIFICATIONS**

Please refer to Installation Instruction Document # 85047 and marking on product for appropriate certification information.

**INSTALLATION**

**CAUTION:** This sensor MUST be installed with an approved barrier and follow the details specified in the Installation Instruction Document # 85045. Refer to Bulletin 4003 for recommended barriers.
1. Barrier must satisfy the electrical requirements listed above.
Barrier manufacturer's installation drawing must be followed when installing the system. For US installations, the
Barrier configuration must be FM Global approved. See Bulletin 4003 for recommended barriers.
2. Installation to be in accordance with the following standards:
for US installations follow ANSI/ISA RP12.6 and the National Electrical Code ANSI/NFPA 70,
for Canadian installations follow the Canadian Electrical Code,
for ATEX installations follow EN 60079-14, for IECEx installations follow IEC 60079-14.
3. Control Equipment connected to associated equipment must not use or generate more than 250V.
4. Sensor must be mounted as part of a bonded structure.
5. Sensor should be de-energized before separating connector and sensor.
6. Aluminum housings: The mounting bracket contains aluminum and is considered to constitute a potential
risk of ignition by impact or friction and must be taken into account during installation.
7. Lead Wires: Red/Vs+, Black/Common-, White/Vo Output A, Yellow/Vo Output B, Green/Direction

Connector:
NOTES