**Magnetic Pick up Coil**

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

<table>
<thead>
<tr>
<th>FLOWMETERS 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
## 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>1.1</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>1.1</td>
<td>2.8</td>
<td>MG</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>MG</td>
<td>900</td>
<td>M-MG K11/16-24x1.3/3.5&quot; 8HT</td>
<td>0024-20</td>
</tr>
<tr>
<td>1.3</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°F to 850°F (-270°C to 454°C)  
-330°F to 850°F (-200°C to 454°C) w/RTD

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

**MARKING:**
- 11/16–24 UNEF
- Ø.750 MAX.
- CONECTOR
### 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.)

---

http://www.flowmetrics.com

Pick up coil – 2/18
## 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>
</tr>
<tr>
<td>350</td>
<td>NO</td>
<td>-450 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, BLINDSHELL 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

http://www.flowmetrics.com

Pick up coil – 2/18
## 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
## 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></td>
<td></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></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

### Signal Output:
- **Sine Wave:** 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**

---

**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
  (INPACT: 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

### Certification:
- 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, 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**

**Installation Instruction, Intrinsically Safe**

### 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

### Certification for IS40A & IS41A

**USA:** Intrinsically Safe
- Class I, II, III, Division 1
- Group ABCDEFG T6...T5
- Class I, Zone 0, AEx ia IIC T6...T5

**Canada:** Intrinsically Safe
- Class I, Division 1
- Group ABCD T6...T5
- Class I, Zone 0, Ex ia IIC T6...T5
- T5 @ -40°C ≤ Tamb ≤ +85°C
- T6 @ -40°C ≤ Tamb ≤ +65°C

**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: Amphenol MS3016A/1SL-45
- B: Amphenol MS3116FB-2S
- MC3: Turck KB 3T
- MD4: Turck RK 4.4T

---

http://www.flowmetrics.com

Pick up coil – 2/18
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

http://www.flowmetrics.com

800-356-6387

Pick up coil – 2/18