OUTSTANDING FEATURES

- DC or AC powered.
- Pulse and analog output scaled per unit of measure.
- Optional Hi and Lo alarms.
- Flowmeter Linearization.
- Factory configured when purchased with a Hoffer flowmeter.
- Several Enclosure options.
- CE Compliant.
- Windows® Configuration Software

SPECIFICATIONS

**Input Signal Type:** Magnetic pickup, MCP pickup, Contact Closure, Pulse.

**Input Frequency Range:** 0.2 Hz to 4 KHz.

**Signal Level:** 10 mV rms to 30 Vdc.

**Power Supply:** 13-30 Vdc, 100-240 Vac. Reverse polarity protection.

**Analog Output:** 4-20mA, 1-5V.

**Analog Output Response Time:** 1/8 sec. (Limited by frequency and MST settings).

**Load Resistance:** Max 650 Ohms at 24 Vdc.

**Accuracy:** ±0.02% of full scale.

**Temperature Drift:** 40 ppm/deg. C.

**Pulse Output:** 0-5V, 0-10V, Open Collector, AC Square. Internal pull up 2.7 k Ohms. Recommended minimum load resistance 50 k Ohms.

**Pulse Scaling:** Divide by 1,10,100 per flow unit of measure.

**Hi/Lo Alarm:** Relay (2A, 30Vdc), 0-5V, Open Collector (0.5A, 30V).

**Communications:** RS232 port for configuration and diagnostics.

**Operating Temperature:** T5 & STD: -40°≤Ta≤ 85°C.

**T6:** -40°≤Ta≤ +79°C.

**Humidity:** 0-90% Non-Condensing.

**Enclosure:** Extruded Aluminum, DIN Rail Mount, Explosion-Proof.

**Regulatory:** CE Compliant.

Up to 20 Point Linearization.

Windows® configuration software for device configuration, diagnostics and monitoring.

PRODUCT DESCRIPTION

The CAT3 is a DC or AC powered, microprocessor controlled transmitter. It outputs a pulse scaled per unit of flow, and analog signal proportional to flow rate. The CAT3 can be configured with High and Low alarms.

INSTALLATION WIRING

®Windows is a registered trademark of Microsoft.
**ENCLOSURE OPTIONS**

**General Purpose Enclosure**

**Din Rail Enclosure**

**ENCLOSURE OPTIONS**

**ORDERING INFORMATION**

**PULSE INPUT**

<table>
<thead>
<tr>
<th>Model CAT3</th>
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<tbody>
<tr>
<td>1</td>
<td>MAG COIL, DRY CONTACT</td>
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<td>2</td>
<td>MC3P</td>
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<tr>
<td>3</td>
<td>ISOLATED PULSE, RPM, RPR AND HALL EFFECT COILS</td>
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**LINEARIZED PULSE OUTPUT**

|    |    |    |    |    |
|----|----|----|----|
| 1  | 0-5 TTL/CMOS |
| 2  | OPEN COLLECTOR |
| 3  | OPEN COLLECTOR WITH PULL UP TO V+ |
| 4  | AC SQUARE WAVE |
| 5  | 0-10V SQUARE WAVE |

**LINEARIZED ANALOG OUTPUT**

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<tbody>
<tr>
<td>1</td>
<td>4-20MA</td>
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<tr>
<td>5</td>
<td>1-5 VDC</td>
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</table>

**POWER SUPPLY**

- DC: 13-30 VDC
- AC: 100-240 VAC (ALARM OPTION NOT AVAILABLE WHEN (AC) IS SELECTED)

**ALARM OUTPUT**

|    |    |    |    |    |
|----|----|----|----|
| 4  | HIGH OPEN COLLECTOR |
| 5  | HIGH TTL/CMOS |
| 6  | HIGH RELAY ONE SPDT, CONTACT RATED @ 2A 30V |
| 7  | LOW OPEN COLLECTOR |
| 8  | LOW TTL/CMOS |
| 9  | LOW RELAY ONE SPDT, CONTACT RATED @ 2A 30V |

**NOTE:** WHEN ALARM SELECTED, AC POWER IS NOT AVAILABLE.

**ENCLOSURE STYLE**

|    |    |    |    |    |
|----|----|----|----|
| 1  | GENERAL PURPOSE |
| 2  | 2" LONG DIN RAIL MOUNT SINGLE UNIT. UP TO 20 CAT3 UNITS CAN BE MOUNTED ON A SINGLE RAIL |

**E3 Enclosure**

**E6 Enclosure**

**STYLE E3 & E6 CERTIFIED RATINGS**

**CSA/FM:**

- Divisions: Class I, Division 1, Groups BCD; Class II, Division 1, Groups EFG; Class III; Type 4X;
- Zones CAN: Ex d IIB+H2 T6/T5; Gb; Ex tb T80°C/CT86°C IIC Db; IP66;
- Zones USA: Class I, Zone 1, AEx db IIB+H2 T6/T5; Gb; Class I, Zone 21, AEx tb T80°C/CT86°C IIC Db; IP66

**ATEX/IECEx:**

- II 2 G Ex db IIB+H2 T6/T5 Gb
- II 2 D Ex tb IIC T80°C/CT86°C Db; IP66
- T6: -40°C ≤ Ta ≤ +79°C; T5: -40°C ≤ Ta ≤ +85°C

**SPECIAL FEATURES**

- CE: MARK REQUIRED FOR EUROPE
- SP: ANY SPECIAL FEATURES THAT ARE NOT COVERED IN THE MODEL NUMBER, USE A WRITTEN DESCRIPTION OF THE –SP
- MIL: DESIGNED TO MEET EMC STDS EN55011-1992 AND EN61326-1-1997
- CFX: 6.75" LONG RISER AND UNION FOR EXPLOSION-PROOF SYSTEM CERTIFIED ENCLOSURES MOUNTED ON TURBINE. USED WITH "X" RISER TURBINE OPTION. NOTE: IF PROCESS TEMP IS < 40°C OR > 78°C, EX-PROOF ENCLOSURE MUST BE MOUNTED REMOTELY.
- C: REMOTE MOUNTED FOR EXPLOSION-PROOF SYSTEM CERTIFIED ENCLOSURE. NOTE: "X" RISER, CERTIFIED UNION, REDUCER AND ENCLOSURE (TO BE SPECIFIED) AND MOUNTED ON FLOWMETER.
- X: NO SPECIAL FEATURES

**NOTES:**

1) IF ENCLOSURE IS MOUNTED ON TURBINE FLOWMETER, RISER MUST BE SPECIFIED ON METER.
2) IF THE CAT IS SHIPPED UNCALIBRATED OR IS RECALIBRATED IN THE FIELD, THE WINDOWS BASED SETUP KIT MUST BE PURCHASED.
3) FOR UL LISTED EXPLOSION-PROOF ENCLOSURES CONTACT FACTORY.