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Perfecting Measurement ™



Conditioners-Amplifiers-Transmitters
Product Bulletin CAT1-001 I

TECHNICAL DATA SHEET

OUTSTANDING FEATURES

- Loop powered 4-20mA.
- Optional flowmeter linearization.
- Factory configured when purchased with a Hoffer flowmeter.
- Several enclosure options.
- CE Compliant.
- Windows® Configuration Software.

SPECIFICATIONS

Input Signal Type: Magnetic pickup. **Input Frequency Range:** 0.2 Hz to 4 KHz.

Signal Level: 10 mV rms to 30 Vdc.

Power Supply: Loop Power 10-30 Vd.

Loop Power 10-30 Vdc. Reverse polarity protected.

Loop Burden Voltage: 8.5 V. **Analog Output:** 4-20mA.

Analog Output 1/8 sec. (Limited by frequency and

Response Time: MST settings).

Load Resistance: Max 650 Ohms at 24 Vdc. **Accuracy:** ±0.02% of full scale.

Temperature Drift: 40 ppm/deg. C.

Communications: RS232 port for configuration and

diagnostics.

Operating Temperature: T5 & STD: -40° \leq Ta \leq +85°C.

T6: $-40^{\circ} < Ta < +79^{\circ}C$.

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

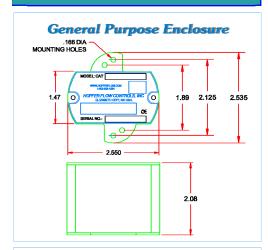
The CAT1 is a microprocessor controlled 2-wire 4-20mA transmitter. The CAT1 converts a low level, frequency signal from a flowmeter sensor into an analog 4-20mA output. The output is proportional to the flow rate.

®Windows is a registered trademark of Microsoft

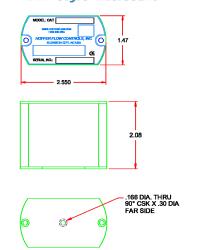
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ENCLOSURE OPTIONS



DIN Style Enclosure



Style E3 & E6 Certified Ratings

Divisions: Class I, Division 1, Groups BCD; Class III, Division 1, Groups EFG; Class III; Type 4X;

Zones CAN: Ex d IIB+H₂ T6/T5; Gb; Ex tb T80°C/T86°C IIIC Db; IP66;

Zones USA: Class I, Zone 1, AEx db IIB+H2 T6/T5; Gb; Class I, Zone 21, AEx tb T80°C/ T86°C IIIC Db; IP66

ATEX/IECEx:

II 2 G Ex db IIB+H2 T6/T5 Gb II 2 D Ex tb IIIC T80°C/T86°C Db; IP66

T6: -40° C \leq Ta \leq +79 $^{\circ}$ C; T5: -40° C \leq Ta \leq +85 $^{\circ}$ C

ORDERING INFORMATION

Model CAT1- (__)

- ENCLOSURE STYLE

 1 GENERAL PURPOSE ENCLOSURE
 - 2" LONG DIN RAIL MOUNT SINGLE UNIT. UP TO 20 CAN BE MOUNTED ON A SINGLE RAIL. D
 - E3(*) † EXPLOSION-PROOF ENCLOSURE

E6(*) † STAINLESS-STEEL EXPLOSION-PROOF ENCLOSURE

* INSERT "M" FOR M20 THREAD. M20 THREAD NOT AVAILABLE IN CANADA FOR STYLE E6 ENCLOSURES.

 \dagger FOR CERTIFIED SYSTEM SPECIFY "CFX" OPTION WHEN MOUNTED ON FLOWMETER OR "C" OPTION FOR REMOTE MOUNT.

LINEARIZED ANALOG OUTPUT
7 4 TO 20 MA UP TO 20 POINTS. ACCURACY +/- 0.02% OF FULL SCALE

INPUT POWER

8 TO 24 VDC LOOP POWERED

- 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.
 - 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 > 79°C, EX-PROOF ENCLOSURE MUST BE MOUNTED REMOTELY. CFX
 - 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**

- EST. IF ENCLOSURE IS MOUNTED ON TURBINE FLOWMETER, RISER MUST BE SPECIFIED ON METER.
- IF ENCLOSURE IS MOUNTED ON TURBINE FLOWING FER, RISER MUST BE SPECIFIED ON METER.
 INPUTES ACCEPTS MAGNETIC COIL ONLY.
 IF THE CAT IS SHIPPED UNCALIBRATED OR IS RECALIBRATED IN THE FIELD, THE WINDOWS BASED SETUP KIT MUST BE
 PURCHASED. CONTACT FACTORY.

E3 Explosion-Proof Enclosure E6 Explosion-Proof Enclosure



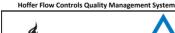
HOFFER FLOW CONTROLS, INC.

107 Kitty Hawk Lane, P. O. Box 2145 Elizabeth City, NC 27906-2145 800-628-4584 252-331-1997 FAX 252-331-2886 www.hofferflow.com emall: Info@hofferflow.com

The specifications contained herein are subject to change without notice and any user of said specifications should verify from the manufacturer that the specifications are currently in effect. Otherwise, the manufacturer assumes no responsibility for the use of specifications which may have been changed and are no longer in effect.







4.43 -(112.5mm)

