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TRIDENT AUSTRALIA
FLUID SYSTEMS & COMPONENTS

FLOWMETERS BY HOFFER

Perfecting Measurement™



TECHNICAL DATA SHEET

OUTSTANDING FEATURES

- ♦ DC or AC powered transmitter.
- ♦ Pulse and analog output.
- ♦ Optional Hi and Lo alarms.
- ♦ Factory configured when purchased with a Hoffer flowmeter.
- ♦ Several Enclosure options.
- ♦ CE Compliant.

PRODUCT DESCRIPTION

The CAT2 is a versatile DC or AC powered transmitter that can be interfaced with any Hoffer flow sensor. It provides a pulse output and an analog signal proportional to the flow rate. The CAT2 can be configured with High and Low alarms.

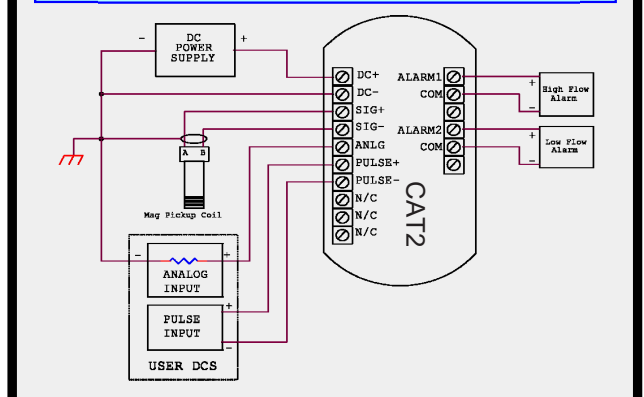
SPECIFICATIONS

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, 0-5V, 0-10V.
Load Resistance:	Max 550 Ohms at 24 Vdc.
Accuracy:	±0.1% of full scale.
Temperature Drift:	200 ppm/deg. C.
Zero and Span Adjustments	
Pulse Output:	0-5, 0-10V, Open Collector, AC Square. Internal pull up 2.7 k Ohms. Recommended minimum load resistance 50 k Ohms.
Pulse Scaling:	Divide by 2,4,8,16,32.



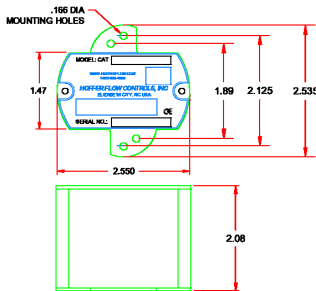
Hi/Lo Alarm:	Relay (2A, 30Vdc), 0-5V, Open Collector (0.5A, 30V).
Operating Temperature:	T5 & STD: -40°≤Ta≤ +85°C. T6: -40°≤Ta≤ +79°C.
Humidity:	0-90% Non-Condensing.
Enclosure:	Extruded Aluminum. DIN Rail Mount. Explosion-Proof. CE Compliant.
Regulatory:	

INSTALLATION WIRING

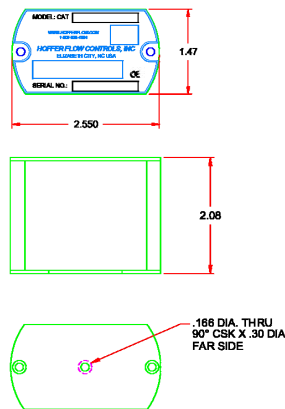


ENCLOSURE OPTIONS

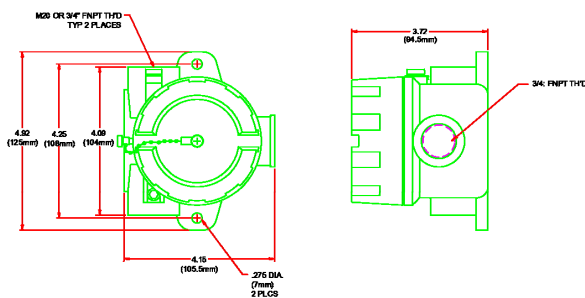
General Purpose Enclosure



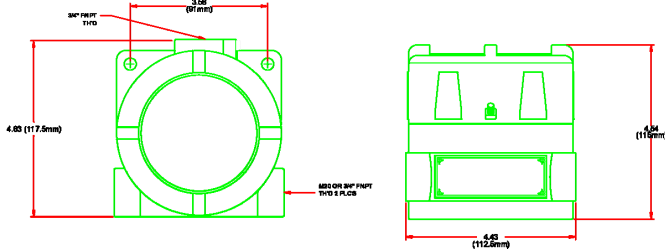
Din Rail Enclosure



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/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 ≤ Ta ≤ +79°C; T5: -40°C ≤ Ta ≤ +85°C

ORDERING INFORMATION

Model CAT2 - () - () - () - () - () - () - ()	
PULSE INPUT	
1	MAG COIL, DRY CONTACT
2	MC3P
3	ISOLATED PULSE, RPM, RPR AND HALL EFFECT COILS
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
ANALOG OUTPUT	
1	4-20MA
3	0-5 VDC
4	0-10 VDC
5	1-5 VDC
POWER SUPPLY	
DC	13-30 VDC
AC	100-240 VAC (ALARM OPTION NOT AVAILABLE WHEN SELECTED)
ALARM OUTPUT	
1	HIGH/LOW OPEN COLLECTOR
2	HIGH/LOW TTL/CMOS
3	HIGH/LOW RELAY TWO SPDT, CONTACT RATED @ 2A 30V
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 OPTION IS SELECTED, AC POWER IS NOT AVAILABLE. USE REMOTE POWER SUPPLY.	

ENCLOSURE STYLE

- 1 GENERAL PURPOSE
 - D 2" LONG DIN RAIL MOUNT SINGLE UNIT. UP TO 20 CAT2 UNITS CAN BE MOUNTED ON A SINGLE RAIL
 - E3 (*)† EXPLOSION-PROOF
 - E4 EXPLOSION-PROOF FOR USE WITH AC POWERED CAT ONLY (NOT Exd SYSTEM CERTIFIED)
 - E6 (*)† STAINLESS-STEEL EXPLOSION-PROOF ENCLOSURE
- * INSERT "M" FOR M20 THREAD. M20 THREAD NOT AVAILABLE IN CANADA FOR STYLE E6 ENCLOSURES.
† FOR CERTIFIED SYSTEM SPECIFY "CFX" OPTION WHEN MOUNTED ON FLOWMETER OR "C" OPTION FOR REMOTE MOUNT.

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
- 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 > 79°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:

- IF ENCLOSURE IS MOUNTED ON TURBINE FLOWMETER, RISER MUST BE SPECIFIED ON METER.
- PULSE SCALING IS SUPPLIED AS A STANDARD IN THE BASE PRICE. THE PULSE OUTPUT IS SCALED SO THAT THE MAX FLOW IS BETWEEN 75-150 HZ WHEN THE ANALOG OPTION IS SELECTED.
- FOR UL LISTED EXPLOSION-PROOF ENCLOSURES CONTACT FACTORY.

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