

OM-CP-PRTRANSIS-A2 Intrinsically Safe Transient Pressure Data Logger



- Intrinsically Safe (IS) certification in accordance with the latest issue of FM3600 and FM3610.
- Certified Intrinsically Safe for: Class 1 Division 1 Group ABCD, Class 1 Division 2 Group ABCD, Temperature Class: T4A
- Programmable Start Time
- Real Time Operation
- 303 Stainless Steel Enclosure
- User-friendly
- ¼ inch NPT pressure port



It is an all too common paradox: you need to capture transient events at a high sample rate but the events of interest are erratically spread over a long period of time. The OM-CP-PRTRANSIS-A2 is the pressure data logger to solve your problems.

They sample up to 100 Hz (10 ms) but it will only trigger on pressure limits that you set beforehand. You can start the trigger on high and/or low thresholds and end the trigger after either a chosen number of samples, or when the signal crosses over your stop threshold. The devices can record up to 255 events and take as many as 262,143 pressure samples. The data loggers also show up to 32 samples of “pre-trigger” data so you might learn what caused the trigger in the first place.

The OM-CP-PRTRANSIS-A2 has been Intrinsically Safe (IS) certification in accordance with the latest issue of FM3600 and FM3610. This certification makes the device ideal for uses in hostile environment applications.

Certified Intrinsically Safe for:

- Class 1 Division 1 Group ABCD
 - Class 1 Division 2 Group ABCD
- Temperature Class: T4A

The OM-CP-PRTRANSIS-A2 is a battery operated unit with a standard ¼ inch NPT for easy coupling to your pressure systems. The non-volatile memory will retain your valuable data even if the user-replaceable battery becomes discharged.

Specifications

PRESSURE	
Pressure Sensor	Semiconductor strain gauge
Pressure Range	*See table below
Pressure Resolution	
Calibrated Accuracy	
Pressure Response Time	0.1 ms (10 to 90 %FSR)
Repeatability	±0.5 %FSR; ±0.2 % typical

GENERAL	
Adapter	¼ inch male NPT
Memory	262,143 samples
Trigger Modes	Software programmable window size or bi-level start/stop triggers
Number of Events	Up to 255 triggered events
Pre-Trigger Size	Up to 32 samples
Start Modes	Software programmable immediate start
Stop Modes	Manual or Timed (specific date and time)
Real Time Recording	May be used with PC to monitor and record data in real time
Reading Rate	1 reading every 10 ms to 1 every second
Calibration	Digital calibration through software
Calibration Date	Automatically recorded within device

Specifications

Battery Type	3.6 V lithium battery included, user replaceable
Battery Life	3 days continuous @ 10 ms sample rate
Shelf Life	Up to 1 year when device is not in use
Data Format	Date and time stamped PSIA (G), inches, feet, mmHg, bar, Torr, kPa
Computer Interface	OM-CP-IFC200 (interface cable required); 115,200 baud
Operating System Compatibility	Windows XP SP3/7/8/10
Software Compatibility	Standard Software version 4.2.5.1 or later Secure Software version 4.1.7.2 or later
Operating Environment	-40 °C to +80 °C (-40 °F to +176 °F), 0 %RH to 100 %RH

Dimensions	6.4 in x 1.25 in dia. (163 mm x 32 mm dia.)
Weight	12 oz (340 g)
Enclosure	303 Stainless Steel
Approvals	CE Certified Intrinsically Safe in accordance with the latest issue of FM3600 and FM3610 <ul style="list-style-type: none"> • Class 1, Division 1 Group ABCD • Class 1, Division 2, Group ABCD • Temperature Class: T4A

BATTERY WARNING: FIRE, EXPLOSION, AND SEVERE BURN HAZARD. DO NOT SHORT CIRCUIT, CHARGE, FORCE OVER DISCHARGE, DISASSEMBLE, CRUSH, PENETRATE OR INCINERATE. BATTERY MAY LEAK OR EXPLODE IF HEATED ABOVE 80 °C (176 °F).

*Range	0-30 PSIA/PSIG	0-100 PSIA/PSIG	0-300 PSIA/PSIG	0-500 PSIA/PSIG	0-1000 PSIA	0-5000 PSIA
Accuracy	2 %FSR, 0.25 % @ 25 °C typical					
Resolution (PSI)	0.02 PSIA/PSIG	0.1 PSIA/PSIG	0.2 PSIA/PSIG	0.5 PSIA/PSIG	1.0 PSIA	5.0 PSIA

To Order

P/N	Description
OM-CP-PRTRANSIS-A2-1-1000A	0-1000 PSIA Intrinsically Safe Pressure Data Logger
OM-CP-PRTRANSIS-A2-1-100A	0-100 PSIA Intrinsically Safe Pressure Data Logger
OM-CP-PRTRANSIS-A2-1-100G	0-100 PSIG Intrinsically Safe Pressure Data Logger
OM-CP-PRTRANSIS-A2-1-300A	0-300 PSIA Intrinsically Safe Pressure Data Logger
OM-CP-PRTRANSIS-A2-1-300G	0-300 PSIG Intrinsically Safe Pressure Data Logger
OM-CP-PRTRANSIS-A2-1-30A	0-30 PSIA Intrinsically Safe Pressure Data Logger
OM-CP-PRTRANSIS-A2-1-30G	0-30 PSIG Intrinsically Safe Pressure Data Logger
OM-CP-PRTRANSIS-A2-1-5000A	0-5000 PSIA Intrinsically Safe Pressure Data Logger
OM-CP-PRTRANSIS-A2-1-500A	0-500 PSIA Intrinsically Safe Pressure Data Logger
OM-CP-PRTRANSIS-A2-1-500G	0-500 PSIG Intrinsically Safe Pressure Data Logger
OM-CP-IFC200	Required USB Interface Cable (sold separately)
OM-CP-BAT102	Replacement 3.6 V lithium battery