

CYCLE COUNT

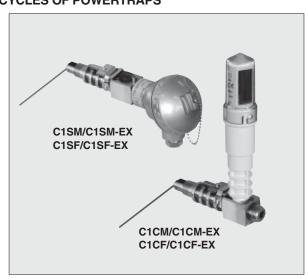
MODEL C1CM/C1CF C1SM/C1SF STAINLESS STEEL

COUNTER FOR MONITORING THE NUMBER OF PUMP CYCLES OF POWERTRAPS

Features

Enables monitoring of the number of pumping cycles of GP series PowerTraps to help determine the timing of maintenance, or estimate the volume of pumped condensate.

- 1. Two different types are available to support various system requirements.
- 2. The Counter Unit types (C1CM(-EX) / C1CF(-EX)) include a built-in LCD display and LED that flashes with each operation cycle to allow easy direct observation.
- 3. The Terminal Box Types (C1SM(-EX) / C1SF(-EX)) combine with an external display to enable remote observation or integration into a broader monitoring
- 4. Can be equipped on currently installed GP series PowerTraps.
- 5. OK for installation outdoors.



Specifications

Model	C1CM	C1CM-EX	C1CF	C1CF-EX	C1SM	C1SM-EX	C1SF	C1SF-EX
Type	Counter Unit			Terminal Box				
Installable PowerTrap Models	GP10, GP10M, GP10L, GP14, GP14M, GP14L		GP10F, GP21F		GP10, GP10M, GP10L, GP14, GP14M, GP14L		GP10F, GP21F	
Description	Standard	Intrinsically Safe 1)	Standard	Intrinsically Safe 1)	Standard	Intrinsically Safe 1)	Standard	Intrinsically Safe 1)
Connection	Screwed							
Size	1/2"							
Max Operating Pressure (barg) PMO 2)	21							
Max Operating Temperature (°C) TMO 2)	220							
Ambient Pressure 2)	Atmospheric							
Ambient Temperature 2)	-10 to 55 °C -45 to 90 °C			-20 to 80 °C	-45 to 90 °C	-20 to 80 °C		
Applicable Fluids 3)	Steam, Air, Nitrogen, Steam Condensate, Water							
Power Supply	Special Built-in Lithium Battery (3.6V) Battery Life: approx. 10 years 4)			Max. Input Power (Pi): 1W Max. Incoming Voltage (Ui): 28V Max. Incoming Current (ii): 120 mA Max. Internal Capacitance (Ci): 3nF Max. Internal Inductance (Li): 0 Note: (Ui)V x (Ii)A ≤ 1 W (Pi)				
Display	8 digit LCD ⁵⁾							
Terminal	— Wiring Inlet: G ½							
Protection Class	IP65							
Accessories	Counter Resetter —							

1) ATEX/IECEx/UKEX or cULus. See reverse side for details of applicable standards.

1 bar = 0.1 MPa

PMO and TMO apply to the inserted portion only. Ambient Pressure/Temperature apply to the external portion

PMO and TMO apply to the inserted portion only. Ambient Pressure/Temperature apply to the external portion

Do not use for toxic, flammable or otherwise hazardous fluids. Battery cannot be replaced. Counter display can be reset to zero by using the included resetter. DESIGN CONDITIONS FOR INSERTED PORTION (NOT OPERATING CONDITIONS): Maximum Allowable Pressure (barg) PMA: 21

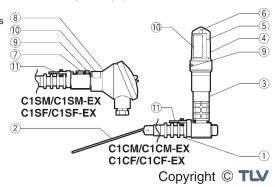
Maximum Allowable Temperature (°C) TMA: 260



To avoid abnormal operation, accidents or serious injury, DO NOT use this product outside of the specification range. Local regulations may restrict the use of this product to below the conditions quoted.

No.	Description	Material	DIN*	ASTM/AISI*
1	Sensor Body	Stainless Steel SUS303	1.4305	AISI303
2	Sensor Arm	Stainless Steel SUS304	1.4301	AISI304
3	Counter Body	Polyetherimide PEI	PEI	_
4	Сар	Polysulfone PSF	PSF	_
(5)	Display (LCD)	_	_	_
6	LED	_	_	_
7	Switch Unit	Polyetherimide PEI	PEI	_
8	Terminal Box	Die Cast Aluminium ADC	ADC	_
9	Hex Socket Head Bolt	Stainless Steel SUS304	1.4301	AISI304
10	Nameplate	Polyester	_	_
11)	Magnet Booster Kit	Stainless Steel SUS304	1.4301	AISI304

^{*} Equivalent materials

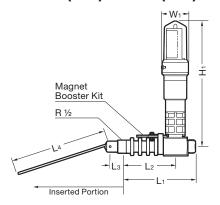




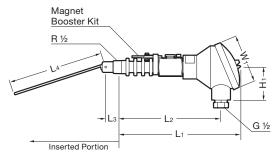
Consulting & Engineering Service

Dimensions

• C1CM(-EX) / C1CF(-EX) Screwed

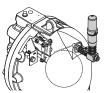


C1SM(-EX) / C1SF(-EX) Screwed

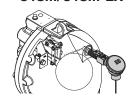


Installation

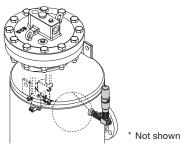
C1CM/C1CM-EX







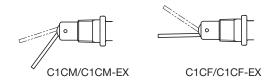
• C1CF/C1CF-EX (C1SF/C1SF-EX)



NOTE: Cycle Counter cannot be installed on GP series PowerTraps insulated with an insulation thickness exceeding 40 mm.

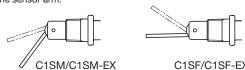
C1CM(-EX) / C1CF(-EX) Screwed* (mm) Size L1 L2 L3 L4 H1 ØW1 Weight (g) ½" 114 82 22 150 200 41 660

* R, other standards available (R is equivalent to BSPT)
C1CM/C1CM-EX shown. C1CF/C1CF-EX differs only by the travel arc of the sensor arm.



C1SM(-EX) / C1SF(-EX) Screwed * (mm) Size L1 L2 L3 L4 H1 Φ W1 Weight (g) ½" 195 164 22 150 49 80 700

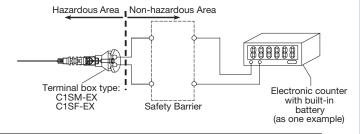
* R, other standards available (R is equivalent to BSPT)
C1SM/C1SM-EX shown. C1SF/C1SF-EX differs only by the travel arc
of the sensor arm.



Intrinsic Safety Standards

Model	Standard	Class
C1CM-EX C1CF-EX	ATEX	
	IECEx	Ex ib IIB T3/T2 Gb, IECEx CML 18.0094X
	UKEX	Ex ib IIB T3/T2 Gb CML 21UKEX2742X
	cULus	Class I, Zone 1, AEx ib IIB T3/T2 Class I, Zone 1, Ex ib IIB T3/T2 File No. E360402
C1SM-EX C1SF-EX	ATEX	
	IECEx	Ex ib IIC T3/T2 Gb, IECEx DEK 13.0004
	UKEX	Ex ib IIC T3/T2 Gb CML 21UKEX2642
	cULus	Class I, Zone 1, AEx ib IIC T3/T2 Class I, Zone 1, Ex ib IIC T3/T2 File No.E360402

Safety Barrier: The intrinsic safety specifications of the terminal box type C1SM-EX/C1SF-EX require a safety barrier to be used.



Manufacturer

Kakogawa, Japan
is approved by LRQA Ltd. to ISO 9001/14001

ISO 9001 ISO 14001