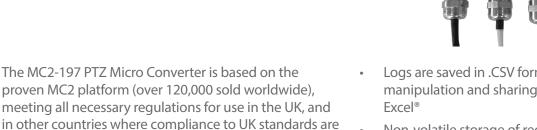


Dresser Micro Series Volume Converter

Model MC2-197 PT7

UK Version

followed.



This converter is compatible with all Dresser meters and meters from other manufacturers with a low frequency pulse output, such as a reed switch or Wiegand pulser.

With an extensive data logging capacity including an Audit Log for tracking user configuration changes, together with a nominal 5 year battery life, this device can provide years of maintenance free service.

The device is certified for use in Zone 0, the harshest of hazardous areas, with the distinct advantage of being able to exchange the battery pack without removing the device from the hazardous area.

Features

- UKCA badged. Full compliance to all relevant UK Statutory Instruments regulations
- Proven, robust, reliable and durable construction
- **IP66 Enclosure**
- 3 independent and fully configurable Data Logs for years of data recording
- Separate Audit Log maintains a record of configuration and calibration changes



- Logs are saved in .CSV format which allows manipulation and sharing of information via MS
- Non-volatile storage of recorded Logs and converter configuration. No loss of data, even after power loss
- Field replaceable Alkaline sealed battery pack for a nominal 5 year service interval
- Optional field replaceable Lithium battery pack for a nominal 15 year service interval
- No loss of function during battery pack exchange due to Super Capacitors continuing to provide
- Certified for the harshest Zone 0 hazardous area environment
- Simple Micro Converter User Terminal (MCUT) software for ease of configuration, calibration and data
- Gas constituent values can be supplied by our customers before final verification and metrological sealing of the device
- Gas constituent values can be updated via password without breaking the physical metrology seal. Volume total registers may not be changed without breaking a physical metrology seal. All changes are recorded in the Audit Log

-	Presser Transducer		
Туре	Semiconductor Strain Gauge		
Certified ranges	0.8 - 2 Bar Absolute		
	2 - 12 Bar Absolute		
	5 - 70 Bar Absolute		
Location	At chassis, or on 3m cable		
Thread size	1/8 NPTF (1/4 BSPT adapter supplied with cabled versions)		
Tura	Temperature Probe		
Type	Pt100 (Class A), 4 wire		
Size	50 x 6mm, on 3m cable		
	Volume Signal Input		
Input connections	1		
Signal	Low Frequency (LF) < 2Hz at meter Qmax		
Supported switch inputs	Open/Close contact		
	Mechanical reed switch		
D	Solid state, current sinking, such as Dresser™ Wiegand sensor		
Programmable pulse value	0.1,1,10 or 100m³ Telemetry Pulse Output		
Output connections	3		
Each configurable for	Vb (Corrected Volume)		
Each configurable for	· · ·		
	V (Uncorrected Volume)		
	Alarm/Fault		
Loop voltage	5 - 14.8VDC		
Loop current	10mA maximum		
Selectable pulse width	62.5, 125, 187 or 312ms		
Switch "off" resistance	> 2 Mohms		
Switch "on" resistance	< 10 ohms		
Isolation	2,500 VDC		
	Display		
Туре	LCD. 8 digit (10mm) + symbols		
Capability	All selectable parameters		
Pressure resolution	0.001 bar		
	0.01 bar for 70 barA model		
Temperature resolution	0.1℃		
	Battery Service Life		
Continuous operation during battery pack exchange			
Sealed Alkaline Pack (Included)			
Typical life	> 5 Years		
Low battery reserve	6 months (approximate)		
Sealed Lithium Pack (Optional)			
Typical life	> 15 Years		
Low battery reserve	18 months (approximate)		
	Data Logging		
Logging	3 independent data logs, selectable from 1 minute to 1 month		
Parameters recorded	16 user selectable, Alarm & Fault, Date & Time stamp		
Logging Capacity	Up to 32,161 logging records, FIFO		
Audit log	Non-erasable		
	Communication		
Туре	RS232, Serial cable		
User PC Interface	Dresser ™ Micro Corrector User Software (MCUT) 3.1.0.0		
Email logging/alarm	Via third party I.S. GSM modem		
GSM interrogation			
and the second second			

	E	nclosure		
Material	Painted Alumi	nium		
Ingress protection	IP66	IP66		
Cable entry	Cable glands	Cable glands		
Dimensions	160 x 118 x 62	160 x 118 x 62mm (W x H x D)		
Weight	1.25Kg	1.25Kg		
Mounting	Wall, Pipe, Inst	Wall, Pipe, Instrument Drive and Meter Bracket		
	Certifie	d Environment		
Classes	M1 / E2	M1 / E2		
Operating Temperature	-25° to 55°C	-25° to 55°C		
Storage Temperature	-50° to 80°C	-50° to 80°C		
Humidity	0 to 95%, susta	0 to 95%, sustained outdoor exposure		
Intrinsic Safety	Zone 0,1 & 2	·		
	(Ex)II 1G Exi	ia IIC T4 Ga -40°C ≤ Tamb ≤ +60 °C		
-		Accuracy		
Pressure error	< 0.4% Readin	9		
Temperature error Total conversion error		< 0.5°C < 0.5% (as per BS EN 12405-1)		
.o.a. conversion enoi		Compression Methods (Z)		
AGA GCM1	Scientable day	AGA GCM2		
SGERG Method 1		SGERG Method 2		
SGERG Method 3		SGERG Method 4		
NX19 Low CG		NX19 High CG		
User definable fixed fac	tor	Withighted		
oser definable fixed fac		uct Conformity		
UKCA Marked	EMC	UK SI 2016/1091		
	ATEX	UK SI 2016/1107		
	Metrology	BS EN 12405-1		
	-	nination Certificates		
Metrology	NMi T10332			
ATEX	Baseefa17ATE	Baseefa17ATEX0086X BAS21UKEX00743		
	Manufacturin	ng Quality Certification		
ISO 9001:2015	Lloyds Registe	Lloyds Register 0078833		
ATEX QA Notification	Baseefa ATEX	Baseefa ATEX 7120		
	MC2-19	97 PTZ Ordering		
Part Number		Description		
061407-500	2 BarA FS PTx	2 BarA FS PTx on 3m cable		
061407-510	12 BarA FS PTx	12 BarA FS PTx on 3m cable		
061407-540	70 BarA FS PTx	70 BarA FS PTx on 3m cable		
061919-500	2 BarA FS PTx a	2 BarA FS PTx at chassis		
061919-510	12 BarA FS PTx	12 BarA FS PTx at chassis		
061919-540	70 BarA FS PT	70 BarA FS PTx at chassis		
	Acces	ssory Ordering		
Part Number		Description		
061243-000	MCUT 3.1.0.0 s	MCUT 3.1.0.0 software on USB		
GS050/USB	Comms kit: MG	Comms kit: MCUT on USB, 2m serial cable, USB adapter		
AB009	Alkaline batte	Alkaline battery pack		
AB013	Lithium batter	Lithium battery pack		
MZ141	Pipe kit. Inc. 6r	Pipe kit. Inc. 6mm tube, fittings and test plug. (valve not included)		
		/2 BSPT for various pipe sizes, please call		
MZB33x	Thermowell, 1	72 D31 1 Tot Various pipe sizes, please call		

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