LITREMETER
Specialist flow measurement engineering

LM.Micro.BDC60

M.BDC60 Batching Instrument with Flow rate/Accumulated flow display and linearisation.	
Display:	Large 8 digit LED display with identification of displayed value e.g. ml, litres or m³ - as well as other functions such as alarm status.
Control panel:	Three/six micro-switch keys with UV-resistant polyester keypad.
Outputs:	Standard 2 channel flow alarm with SPCO relays (rated 240 Vac 5A resistive and 3A inductive loads). Can also be configured for flow status and/or valve leakage. Pulse, 4-20 mA & 0-5 Vdc options – see below
Linearisation:	16 data points of linearisation is included for optimization of the flowmeter output characteristic.
60 Casing:	DIN 192 x 96 x 100 mm (7.6" x 3.8" x 4") L x H x D.
Mounting:	Panel Mounting (184 x 92 cut-out) only;
Operating Temperature:	-30°C to +60°C
Power supply:	24 Vdc or 95-265 Vac
Configuration:	Configuration is done at SETUP-level programming mode (passworded)
Pulse input::	Litre Meter pulse; TTL (0-5 V, up to 0-30 V); NPN open collector; PNP and reed switch.
Frequency range:	0.001 – 1999.9 Hz programmable – input up to 2 kHz.
Supply	Sensor supply voltage 15 Vdc - max. 50 mA

OPERATOR FUNCTIONS:

BATCH/TOTAL:	13mm minimum character-size - 8 digits. Switched-to-read with flow rate total and batch set. Flow rate, total, batch quantity and batch set are sequentially selected. A "change batch" key and easy method of varying the batch quantity add to the user friendly facilities offered.
Measuring units:	ml, litres, gallons, m3 or kg and no unit, others optional.
Number of decimals:	Maximum: three. TOTAL is resetable from the front panel (password protected) or remotely via the rear terminals. If the unit rolls over 999,999 litres, it will automatically change the display to 1000.00m³.
Batching Relays	An open collector output is provided to confirm start/stop events. Calibration programmes remove the problem of batch over-run that takes place at the end of the batch or at any "stop batch" operation. A routine is included for detecting inconsistent batch valve closure. An LED provides a warning if the batch does not correctly terminate. Calibration facilities are extensive. The unit displays pulses from the flowmeter and the accurate batch time to establish the calibration value.
Remote Start and stop	Available from terminals.
FLOWRATE:	5 digits; switched-to-read with Total.
Time units:	Seconds, minutes, hours, days.
Number of decimals:	Maximum: Four
Rolling Average:	Adjustable - to smooth out flow fluctuations – works on display and outputs.
On-site calibration:	Mode to assist user on-site providing display of test time and test pulses counted, control relay output available.
Test routine:	Display function via front panel TEST keypad
Programming	Includes ability to enter flow and time units; flow points; alarm points and outputs

OPTIONS:

/I Analogue Output:	(0)4-20mA output (current sourcing with +24V supply to loop)
/E Analogue Output:	0-5Vdc, 0-10Vdc output etc.
/OC Pulse Output: **/RC** relays	Reed switch or open collector output. Scaleable in relation to accumulated total: i.e: pulse per X quantity - pulse on-time adjustable. Reed Switch: volt-free 100 Vdc at 0.5 A for non-inductive loads. Max switching power is 10W, max freq 4Hz. Open collector: NPN transistor with emitter common to 0V. Rated max 100 mA, 50 Vdc, 125mW max. internal power dissipation.
/RS232m	Interfacing with RS232/RS485for monitoring and control
/PR	Interfacing with a printer

Documentation:

Operating & Maintenance Manual	LM0575
Installation Drawing	
Conformity:	This product conforms to EMC. EN50081-1, EN50082-1, EN61010.

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