

FloLog™

Single Channel Logger

The **MACE FloLog** is an intelligent single channel logger that can be used to log either pulse or analogue signals from water meters, rain gauges, third-party transducers such as level sensors and many other applications.

The **FloLog** has as standard 512k flash memory. That's sufficient memory for two years data storage at 10 minute logging intervals.

Other design features include a 3.6Volt lithium battery that is designed to last over 5 years. So, there's no need for swapping batteries every few months. The logger is telemetry ready and remote communication is possible through an external modem.

There are three versions to the logger:

- **"FloLog Event"** is a simple event logger that date and time stamps every pulse. It also gives you a total number of pulses at the end of each day. This logger is suitable for rain gauge logging applications. **FloLog Event** is capable of detecting up to 10 pulses per second.
- **"FloLog 4-20mA"** is designed to log an analogue signal from a sensor. This is simple to setup through the MACE FloCom software provided free with the logger. This logger is ideal for logging level data from 4-20mA depth transducers or even a flowmeter such as an electromagnetic or similar.
- **"FloLog Pulse"** is designed to log pulses from water meters or similar. The logger will record (date/time) and count the pulses between a user defined logging period. It can then translate the data into user definable units. The **FloLog Pulse** is capable of detecting up to 300 pulses per second.

The **MACE FloLog** is low cost, easy to use, robust and comes with free MACE FloCom software.



The force in flow.

FloLog Specifications



GENERAL

Dimensions:	136mm x 65mm x 40mm
Weight:	0.2kg
Enclosure Rating:	IP64
Enclosure Material:	ABS
Operating temperature:	-20 to +50 degrees Celsius
Application software:	FloCom software utility for Windows (configuration & downloading)
Communications port:	RS-232, Direct or via external modem
Factory backup:	12 months parts and labour guarantee

DATA LOGGING:

Number of channels:	Single channel logging factory set to either; 4-20mA Input Pulse Input Event Input
Data memory:	FLASH (512Kbytes)
Logging capacity:	104,200 4-20Ma readings ^{Note 1} 173,200 pulse readings ^{Note 1} 102,200 event readings ^{Note 1}
Logging intervals:	5, 10, 15, 30 & 60 minutes
Totalizer logging intervals:	none, hourly, 12 hourly, 24 hourly
Timekeeping:	Real time clock

POWER SUPPLY:

Internal:	3.6 Volt Lithium Cell
External:	8 to 30 Volts DC
Battery Life:	5 to 7 years ^{Note2}
Sensor Excitation:	3.0 to 3.6 Volts (2 kOhm source impedance)

INPUTS

4-20mA

Resolution:	12bit DAC (better than 0.05%)
Accuracy:	±0.1% of full scale
Units:	Free text
Grounding:	Input referenced to ground
Input protection:	±30 Volts DC

Pulse

Frequency range:	0 to 300 Hz
Min pulse width:	500µS
Polarity:	Active low
Rate units:	l, kl, Ml, acft, cuft, gal / S, min, hr, day
Volume units:	l, kl, Ml, acft, cuft, gal
Grounding:	Input referenced to ground
Input protection:	±30 Volts DC

Event

Frequency range:	Up to 10 events per second
Resolution:	1 Second
Min pulse width:	500µS
Units:	Pulse
Polarity:	Active low
Grounding:	Input referenced to ground
Input protection:	±30 Volts DC

Note 1:

The exact number of stored readings will depend on several factors, including the value of the readings taken, the number of status messages recorded and the totalizer logging interval. The values quoted are typical worst case with totalizer logging disabled.

Note 2:

Battery life expectancy is determined by several factors. A usable battery life of 5 to 7 years can be expected provided that the following conditions are met:
RS-232 communications is limited to less than 30 minutes per month.
Current from the sensor excitation output is limited to less than 25µ Amps.
The duty cycle of the pulse input is less than 20%.
If these conditions can not be met the use of an external power supply is highly recommended.



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NOTE TO END USERS:

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