

FlowCERT with Speedy datasheet



Pulsar's FlowCERT is a complete solution for high-accuracy measurement of open channel flows. Teamed with the temperature independent DUET transducer array, FlowCERT achieves the highest possible accuracy in flumes and weirs, and includes 5 alarm or control relays and data logging facilities. Additionally add the Speedy velocity sensor for applications where no (PMD) Primary Measurement device exists.

FlowCERT - General

Function:	Open Channel Flow or Level
Power Supply:	115V AC +5%/-10%, 50/60 Hz, 18-30V DC
Display:	Back lit, 6 digits plus 12 character text, bargraph with direction indicator
Approvals:	UL/CuL NEMA 4X (IP64)
Temperature:	Ambient -4 to 122°F (-20 to 50°C)

Outputs

Relays:	5, form "C" (SPDT) relays rated 5A at 115V/240V AC
Relay Functions:	Level, flow totalizer, rate of change, device failed
Analogue Outputs:	2 x 4-20mA isolated outputs
Analogue Output Functions:	Flow, average flow, level, distance, velocity (of Speedy velocity sensor)

Programming

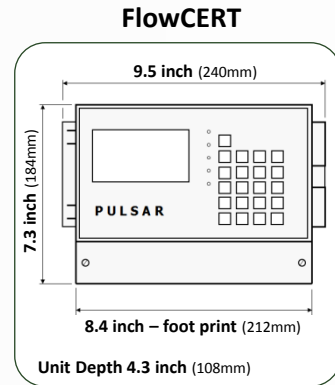
Programming:	Integral keypad - easy and descriptive menu driven parameters or Ultra PC - all parameters accessible and echo traces viewable Ultra Log - used to setup data logging routine and extract data
--------------	--

Echo Processing

Echo Processing:	Digital echo processing
Masking:	DATEM Obstruction Masking (unique intelligent masking technology, continually adapting to prevent false levels being shown)

Options

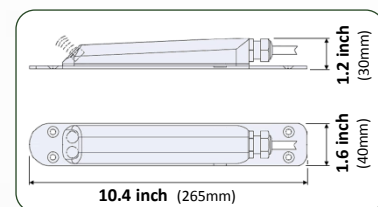
Digital Communications:	RS485 Modbus or Profibus DP V0 or V1
Software:	Ultra PC - diagnostic software, Ultra Log - used to setup data logging routine and extract data



Speedy Velocity Sensor

Description:	For use in channels, pipes or sections where no Primary Measurement Device (PMD) exists.
Temperature:	-4 to 122°F (-20 to 50°C)
Measurement Range:	+/- 20 ft/s (+/- 6m/s)
Accuracy:	1% of measured range or +/- 0.1ft/s (+/- 0.03m/s) whichever is greatest
Min Particle Requirement:	50ppm (parts-per-million) Particle size 2.0×10^{-6} inch (50 nm (1×10^{-9}))
Maximum Separation:	820 ft (0.25km)

Speedy - velocity



Speedy Approval

NEMA:	NEMA 6P (IP68)
-------	----------------

Compatible Transducers

Open Channel Flow App. :	dBMA3*, DUET* dB6, dB6, dB10, dB15 (* recommended for OCF Application)
Level App. :	dBMA3, dB6, dB6, dB10, dB15
Please see related transducer datasheet for specifications and options.	