

FlowCERT with DUET & 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 / Inputs

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)
Analogue Input:	4-20mA (passive or active)
Analogue Input Function:	From an external level device (i.e. pressure)

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
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Echo Processing

Echo Processing:	Digital echo processing
Masking:	DATM 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

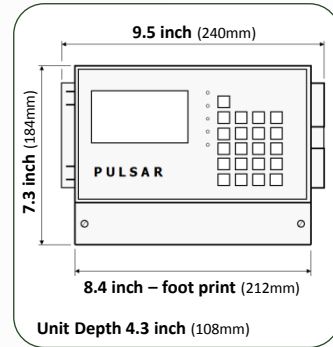
DUET Transducer

Range:	1.0 ft. - 6.5 ft. (0.3m - 2.0m)
Accuracy:	0.025% of the measured range (typically 0.02 inch (0.5mm))
Resolution:	0.004 inch (0.1mm)
Temperature:	-22 to 176°F (-30°C to +80°C)
Technical Info:	Effective 3° full beam angle with algorithms <10° full beam angle at -3dB, 125KHz
Cable Extension:	3-conductor 20 AWG shielded
Mounting:	9/16" x 4 mounting holes (15mm x 4)
Note:	The World's most accurate ultrasonic and totally immune to solar radiation.

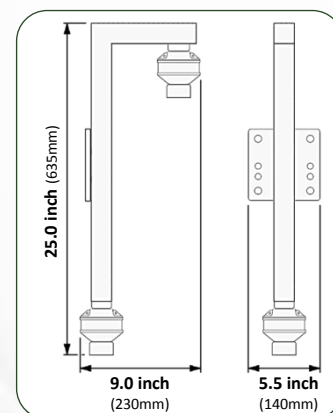
DUET Approvals

NEMA:	NEMA 6P (IP68)
FM/FMC Approval:	Class I, Div. 1, Groups A-D. Class II, Div. 1, Groups E-G . ATEX EEx m IIC

FlowCERT



DUET



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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 Approval

NEMA: NEMA 6P (IP68)

Speedy - velocity

