



Triple Validation Unit

PRODUCT DATASHEET

SPECIALIST FEATURE

Triple Validation

INPUTS

3 x 0/4-20 mA

OUTPUT

1 x 0/4-20 mA
3 Relays

TYPICAL APPLICATIONS

Chlorine
pH
Dissolved Oxygen
Level

DIRECT REPLACEMENT FOR

Great Lakes Instruments/GLI Model 95
Capital Controls Validation Unit



Triple Validation is widely accepted method of ensuring reliable control of critical processes and is often used in drinking water treatment control. Applications also exist in a range of other processes. For example the unit can be used to monitor water levels upstream, downstream and within screens when they are applied in water courses prone to flooding. The unit will alarm if one of the levels is out of step with the others warning of a screen blockage, allowing operator to visit site before a flooding event occurs.

The Triple Validation Unit monitors three process signals, all covering the same parameter and performs a check on signals under one of a number of optional algorithms. The input can come from our own sensors or from existing third party products.

- Option 1: Average of Nearest Two Inputs
- Option 2: Average all Three Inputs
- Option 3: Accept Middle Value

Alarm outputs are provided giving warnings where one or more input signal is considered to be out of it's acceptable working range.

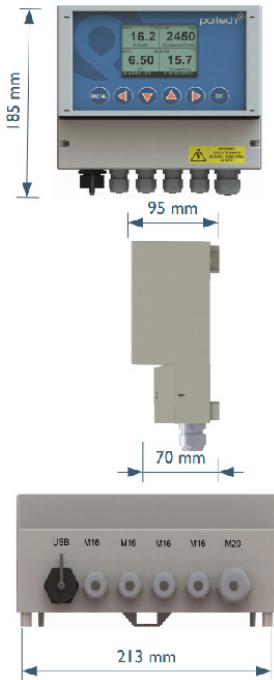
If your process needs an alternative validation algorithm we are more than happy to add more control options.

Call us on + 44(0) 1726 879800 www.partech.co.uk



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Physical

Dimensions
Weight
Protection Class
Enclosure Material
Cable Entries
Cable Size

185 x 213 x 95 mm (HxWxD)
1.4 kg
IP65
Polycarbonate (PC)
1xM20, 4xM16
Core Size 2.5 mm²

Environmental Data

Temperature

-20 to 70°C, 0 to 95% Relative Humidity, Non-Condensing

Electrical

Power Supply
Power Rating

85 to 264 VAC, 50/60 Hz or 9 to 36VDC
30W

Inputs

Analogue
Input Type

3 x 4-20 mA
Type 2 – 2-wire, transmitter powered by Triple Validation Unit
Type 3 – 3-wire, transmitter powered by Triple Validation Unit
Type 4 – 4-wire, transmitter powered independently

Load

100 Ω

Outputs

Analogue Outputs
Relays
Relay Type
Relay Rating
Auxiliary Connections

1 x 4-20 mA, maximum load 750 Ω
3
SPCO
Max 5A @ 30 VDC/230VAC
Configurable for Remote Input, Device Power

User Interface

Display Graphic
Backlight
Keypad

Sunlight Readable, LCD, Black on White, Transreflective
On/Off/On after keypress with user adjustable contrast
6 Key membrane

Mounting

Handrail Mounting Plate

See documents 223974DS, 223975DS, 223976DS for mounting options

Warranty

2 years

Order Codes

Part No Description

- 224503 Triple Validation Unit (85 to 264VAC, 3x0/4-20mA Inputs, 1 x 0/4-20mA Output, 3 x Relay Outputs)
- 226029 Triple Validation Unit (9 to 36VDC, 3x0/4-20mA Inputs, 1 x 0/4-20mA Output, 3 x Relay Outputs)

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The company reserves the right to alter the specification without prior notice. E&OE

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