

# FW Series Digital Flow Indicator



## DS1951

### Features:

- Pulse or analogue inputs
- Batch controller available for pulse inputs
- Housed with a rugged, powder-coated aluminium enclosure
- Available in intrinsically safe and panel mounted versions



### Description:

The FW Series of digital indicators are specially designed for computing and displaying total and instantaneous flow rates in liquid or gas applications. Versions are available for either pulse or analogue inputs, and a batch controller is available for pulse inputs. Housed within a rugged, powder-coated aluminium enclosure that is suitable for direct mounting to a flowmeter, pipe, wall or panel.

- Units are also available mounted directly to the Turbine Liquid Flowmeters
- These units are also available in intrinsically safe and panel mounted versions

Display	Large 40 x 90mm LCD with 7 x 17mm digits and 11 x 8mm digits. Flow - up to 7 digits, Total - 7 digits, Accumulated Total - 11 digits	
Programming	Via keypad	
Input	Pulse:	Sine wave, NPN/PNP open collector, reed-switch or NAMUR 0-10kHz (selectable de-bounce for low frequencies)
	Analogue:	4-20mA or 0-10V DC with linear or square-root functions
Output	Pulse:	Open collector output, scaleable pulse per unit, 20Hz max, 50V DC, 300mA max, 25 or 100msec pulse width
	Analogue:	Passive 4-20mA
Power Supply	7 year lithium battery (4-20mA loop or 5-24V DC, if required)	
Temperature	-15 to 60°C	
Housing	UV resistant powder-coated aluminium casing, Stainless Steel bolts, polycarbonate window, EPDM and PE seals	
Protection	IP67 (IP65 when panel mounted)	
Dimensions	130 x 114 x 58mm	
Panel Cut-Out	115 x 96mm (LxH)	
Cable Entry	1 x M20 and 2 x Pg9 cable glands	
Batcher Outputs	Two open collector outputs for one/two stage control 50V DC, 300mA maximum	
Overrun Correction	Automatic	
Remote Input	One input for Start/Stop batch	
Alarm Unit	Outputs: 2 x open collector outputs programmable as high/low alarms or pulse output 50V DC, 300mA maximum	
Remote Input	Reset of total quantity or batch total	
Relays/Supply	12-24V AC/DC or 80-240V AC supply	
	Relays: 250V AC/1A maximum	
	Sensor supply: 8.1-24V DC, 80mA maximum @ 24V	
Serial Comms	RS232/RS485	

### General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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SKU	Description
FDIS0090	Pulse input 4-20mA output
FDIS0091	Pulse input with High/Low alarms
FDIS0092	Pulse input with 15-point linearisation
FDIS0093	Dual pulse input (no outputs)
FDIS0094	Dual pulse input with ratio function
FDIS0095	Dual pulse input with A-B or A+B functions
FDIS0096	Pulse input batch controller

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Issue A 07/2018 Page 2