NETAFIM™
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NETAPULSE

PRODUCT NOTICE

PRODUCT MANAGER | NICKIE THERON
DATE | APRIL 2024

Netafim SA is proud to launch the NetaPulse pulse splitter. The main function of this product is to split pulses from one device to multiple devices while keeping devices isolated. Its use is mainly to split pulses from water meters to multiple electronic devices.

NetaPulse can also be used to reflect the flow and accumulation of water meters.

NetaPulse can split one pulse in up to four pulses each with the same or different setting, whether it is multiply, divide or 1 to 1. As it is a smart device multiplying a pulse can be done evenly according to the incoming flow. When an incoming pulse is split, the output pulse can either be in the same ratio as the incoming pulse, divided or multiplied.

For convenience, the NetaPulse comes with the four inputs already set up to popular water meter EV outputs. This can however easily be customised by the user if necessary. The user can reprogram the unit via a Wi-Fi interface.

The 2" colour display shows the flow rate and accumulation of the specific input, input and output pulse identification and other information. The NetaPulse accumulates water flow through all four inputs in m³. Each input's flow is accumulated separately, and the data can be accessed via Wi-Fi.

/Features

- 12 to 24V DC or AC non-polarity
- 9V DC Battery compatible
- DIN Rail mounting
- Wi-Fi Hotspot
- Isolated outputs
- 4 x Digital Inputs
- 4 x SSR Digital Outputs
- RS485 Modbus ready
- Large 2" IPS Colour display
- Pre-configured settings ready for popular applications
- Display flow rate and accumulation
- Firmware and configuration/settings updateable via Wi-Fi in a browser with any smart device
- Input power has 1 Amp auto-reset fuse for protection
- Each SSR output has their own 250 mA (6W) auto-reset fuse
- The NetaPulse Enclosure can be used for outside installations

/ Functionality

- Only one input to be used for the released current version.
- The controller will auto detect from which input pulses are received
- The controller will use that input, and default setting to determine the flow rate to display
- The outputs will use the pulse input to generate output pulses
- If the output is multiplied, it will be done in a spread method, rather than all at once in bulk
- Each input and output have an identification on the screen that indicates activity on that input and output
- The screen is always activated when the unit is powered up

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Specifications

GENERAL SPECIFICATIONS	
Input Voltage Range	12 - 24 VDC or VAC
Power Rating	< 2.5 Watt
Maximum Input Voltage	< 38 VDC or VAC
Minimum Input Voltage	> 9 VDC or VAC
Input Current	< 220 mA
Input Polarity	Not polarity dependant
Display	2" Display (31 x 41 mm)
Mounting	35 mm DIN Rail
Installation	Inside enclosure
Size	89(L) x 70(W) x 73(D)

INPUT SPECIFICATIONS	
Number of Inputs	4 (Only 1 to be used)
Pulse Type Compatibility	SSR, Reed Switch, Open Collector or Dry Contact
Voltage	24 VDC
Visual Indication	For each input

OUTPUT SPECIFICATIONS	
Number of Outputs	4
Output Type	Solid State Relay (SSR)
Protection	Individual Isolated Outputs
Max Current	500 mA
Max Voltage	60 V
Output Response	Direct 1:1 / Multiply / Divide
Visual Indication	For Each Output

COMMUNICATION SPECIFICATIONS	
MQTT Client over Wi-Fi	Normal HMI from smart device via browser
RS485 MODBUS RTU Port	Controller to controller wired

Catalogue Numbers and Pricing

	CATALOGUE NUMBER	DESCRIPTION	LIST PRICE (EX VAT)
	00243-100006	NETAPULSE	R4 500
	00235-000003	NETAPULSE ENCLOSURE	R500

For more information, please speak to your Technical Advisor or send an email to infoza@netafim.com

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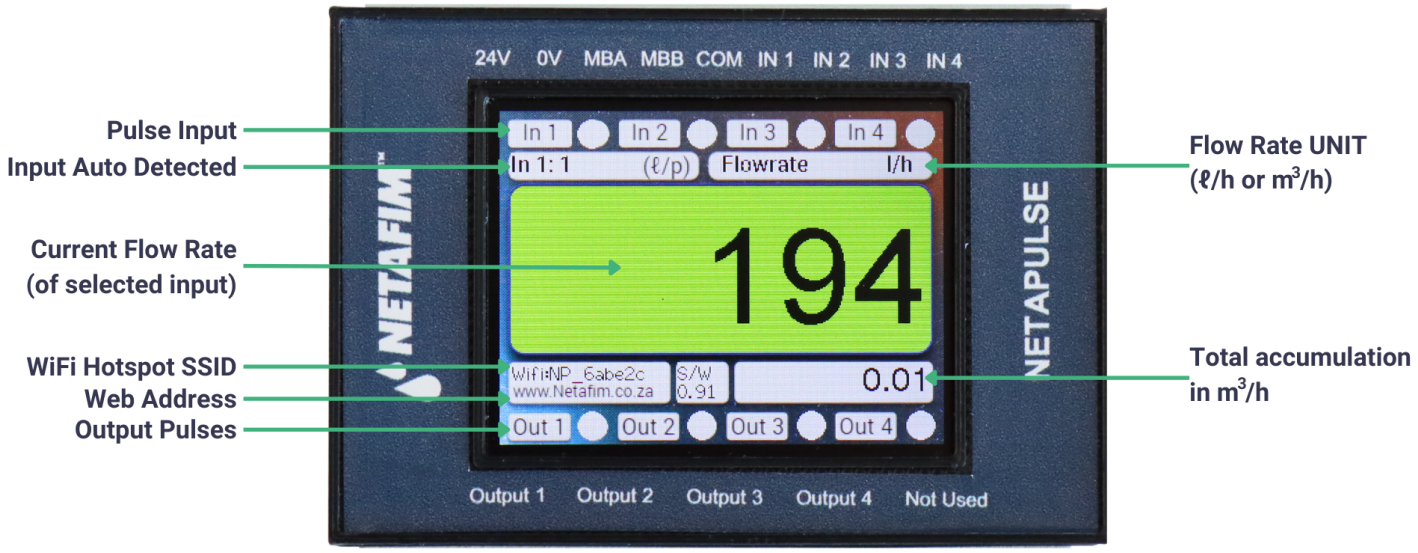
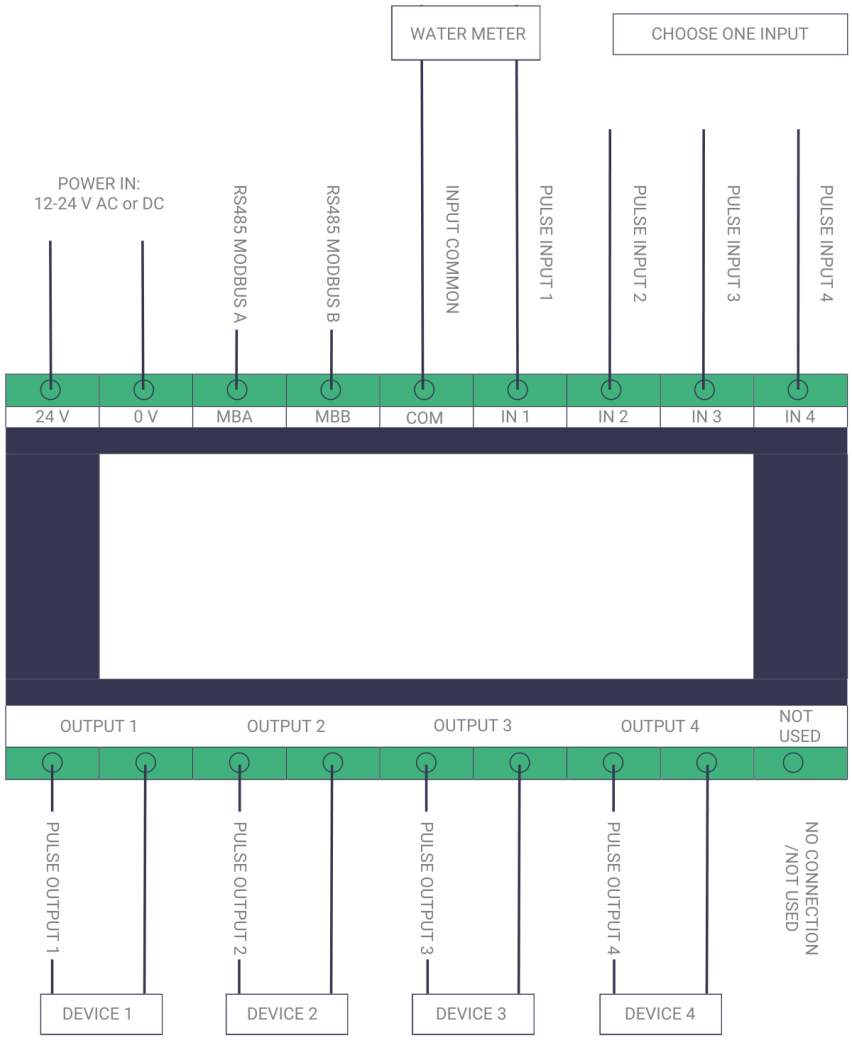
NetaPulse Display



S/W: 0.91: Indicates the software version loaded on the NetaPulse is 0.91.

Wiring



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