

Pulse Counter



- Pulse counter suitable for use to interface gas, water or electricity meters into the Enistic Energy manager
- Wide input tolerance
- IP66 rated
- Simple to install / configure
- Flexible software allows many different input calibration software options

The Enistic Pulse Counter is a flexible interface that links water, gas or electricity meters into the Enistic Energy Management system. With a wide variety of input options, the counter is designed to give a 0.01% accurate feed of meter values into the software systems. Software allows a range of interpretations of the pulse such as whether it is gas, water or electrical and the meaning of each pulse.

Features

- Counts and reports a wide variety of pulses
- Suitable as an interface to electricity, water and gas meters
- Self calibrating pulse detection
- Flexible pulse shape and hi/lo level
- IP66 for interior or exterior use
- Can be interfaced to wide variety of equipment
- Software allows interpretation of a wide range of different pulse meanings
- Encrypted communications for secure operation
- Mesh networking for excellent range
- Unique serial number embedded in each device for identification on network

Application areas

- Gas, water and electricity meter interface
- Data logging & remote data logging
- Home and office energy management

Information subject to change without notice. E & EO.

For further information and ordering please contact Enistic Limited, UK Company Number 0690 8381, VAT GB 974 6803 78

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BBSP-PM

Electrical

Item	Value	Unit
Power supply	5V, 300mA, Regulated	
Power supply connection	Screw connections on PCB	
Power consumption (standby/typical/max)	0.1 / 0.1 / 0.11	W
Battery option	N/A	
Expected battery life	N/A	mW

Measurements and detection

Item	Value	Unit
Maximum pulse frequency	20	Hz
Pulse detection type	Dry contact / volt free between +VE and -VE	
+VE connection	+3.3V stabilised supply, short circuit protected, 10mA max	
-VE connection	Pulse input, -1.8 to 3.3	V
Ground connection / Earth	Not required	
Minimum pulse width	10	mS
Maximum pulse width	3599	S
Pulse trigger	10% increase above average voltage on -VE connection	
Pulse release	10% decrease below pulse peak voltage on -VE connection	
Maximum number of pulses recordable	4,294,967,296	
Pulses retained between power cycles	Yes (EEPROM)	

Physical

Item	Value	Unit
Size (l x w x h)	132 x 120 x 38	mm
Fitting	Wall mount	
Weight	512	g
Environmental protection	IP66, suitable for indoor or exterior use	
Storage (min -> max)	-20 to 50	°C
Storage (min -> max)	0 -> 60	% rel. hum.
Operation (min -> max)	-50 to +125	°C
Operation (min -> max)	0 -> 60	% rel. hum.

Wireless communications

Item	Value	Unit
Frequency	2.4	GHz
Interferes with WiFi	No	
Standard	802.15.4 / Zigbee Pro	
Maximum range between mesh nodes	32	M
Maximum nodes per network	> 1,000,000	nodes
Encryption standard	128 bit AES	

Miscellaneous and standards

Item	Value	Unit
Standards	CE, EMF, LVD, WEE, ROHS	
Country of design / manufacture	UK / UK	
Packaging	Cardboard box	

* Estimated

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