

Intelligent Relay #1

Part No: 60.INT.RELAY.1.[868]-[928]

The Pressac Sensing Intelligent Relay device facilitates the control of plant equipment, appliances, lighting and HVAC systems to optimise energy performance in buildings. Fully EnOcean® compliant, it will interact with standard devices such as window contacts, wireless switches etc. The unique mains input sense feature enables further integration of wireless products into existing wired solutions. The Pressac Intelligent Relay can be integrated with a wide range of EnOcean® compliant products from over 300 manufacturers.



Features and Benefits:

- Mains input sense feature - enables integration of additional wireless EnOcean® products via mains switching and detection
- Low profile - straightforward installation into industry backboxes
- Can be retrofitted into existing wired circuits
- Onboard logic engine - enables simple control functions to be performed
- Repeater function - extends the operating range of existing sensors



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Functionality:

- Switch mains appliances ON and OFF via a valid EnOcean® telegram
- Remotely controls devices/appliances
- Repeats all valid EnOcean® telegrams to extend the operating range of existing sensors
- Acts as an actuator in a control system
- Mains input detector for integration with existing wired systems and installations e.g. light switches

Applications:

- New & retrofit lighting control
- HVAC optimisation and control
- Appliance monitoring
- BMS controls

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TECHNICAL SPECIFICATIONS	
Input Voltage Range	85v to 250v A.C. 50/60 Hz
Power Consumption	<0.5W
Wired Input (mains sense pin)	> 85V
Switching Load	10A Resistive
Storage Temperature	-20°C to +40°C
Operating Temperature	-5°C to +40°C
Enclosure Rating	IP20
Environment	Backbox mounted
Repeater Function	Yes
Telegrams	Receives RPS/1BS Transmit 4BS
Configuration	Via user buttons

The Relay has 5 modes of operation
(selectable through menu push buttons):

Mode 1: Rocker Switch

The Intelligent Relay will switch on (button I) and switch off (button O) on receipt of a valid telegram, compliant with RPS F6-02-03. Up to 30 switches can be learnt to each relay switch.

Mode 2: Window Contact

Up to 2 window contacts can be learnt to the Intelligent Relay. The Relay contacts will be closed on receipt of a closed contact telegram and opened on receipt of an open contact telegram, compliant with 1BS Telegram D3-00-01

Mode 3: Switch Toggle Output

The Intelligent Relay will switch (toggle) on receipt of a valid telegram, compliant with RPS telegram F6-02-03. Up to 30 switches can be learnt to each relay switch.

Mode 4: 2 Way Switching

(Mains Sense + Wireless Switch) The Intelligent Relay will switch (toggle) on receipt of a valid telegram, compliant with RPS F6-02-03, or the detection or removal of mains power on the sense (S) input.

Mode 5: Digital Input Sense

The unit will send a telegram compliant with 4BS telegram A5-30-02 when mains is either removed or applied to the sense (S) input of the unit.



Pressac Sensing products incorporate EnOcean® wireless technology, and are fully compliant with EnOcean® protocols. The Pressac Sensing range can be integrated with EnOcean® products from over 300 global manufacturers.

EnOcean® is a widely established and global technology, and has been installed in over 250,000 buildings worldwide. The EnOcean® wireless standard is the first to be ratified as an international standard - ISO/IEC 14543-3-10; together with the EnOcean® Equipment Profiles (EEPs) drawn up by the EnOcean® Alliance, this international standard lays the foundation for fully interoperable, open wireless technology comparable to standards such as Bluetooth and WiFi. The standard can be downloaded from www.iso.org.



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