



Sensus POM-433

Pulse Output Module for Sensus Wireless Meters



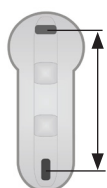
For safety and correct product usage, read this manual before this product is used.

Description

The Sensus POM-433 (Pulse Output Module) provides a solution to add pulse output functionality to Sensus radio-enabled meters in AMR or AMI mode. It acts as an interface between a Sensus meter transmitting wM-Bus messages and a 3rd party data logger, allowing integration to Building Management systems via the pulse output.

Equipment

1. Radio transponder Sensus Pulse Output Module
2. Wall holder



85 mm hole center distance

Required tools

- Screwdriver, for mounting
- SIRT
- DIAVASO Configuration and Service version 24.2.0 and later or
- FieldLogic version 7.7 and later

Pulse interface

The device provides a 4-wire pulse interface, which is configurable depending on requirements. The wires are colour-coded as per below:

White – Primary pulses ^{*)}

Yellow – Secondary pulses/Direction ^{*)}

Green/Brown – Ground/Cable Cut (normally closed connection)

^{*)} Depending on pulse configuration selected

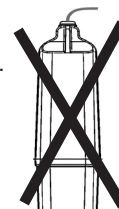
Typical installation

The maximum distance between the Sensus POM-433 and the meter is 10 m line of sight. Typical installation is in a meter pit, mounted above the waterline to the underside of the lid or pit wall, or directly adjacent to connected meter mounted in a box.

Test the best position before the final installation.

Installation of the wall holder

The wall plate is surface mounted using two screws. Leave sufficient slack cable and space so that the transponder can be replaced in the future. Do not install the transponder upside down!



Fitting / Removing the transponder

To fit the transponder push the rectangular protrusions on the back into the mating holes in the wall plate and push down. To remove the transponder, do it vice versa.

Disposal instructions

This product contains lithium batteries. To protect the environment it should not be disposed of in household waste when its serviceable life is over. Don't destroy or drill or demolish the module housing!



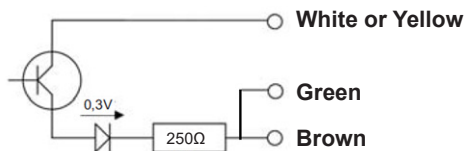
Disposal can take place through a Sensus Service Centre. If however you want to take care of the disposal yourself, please comply with the local and national regulations for environmental protection.

Safety instructions:

- The device is to be installed by trained and qualified service personnel only.
- There are no replaceable parts in the device. Do not open the device for repair or service.
- Do not pierce, break, crush, or cut the device or the battery!
- Do not expose the device or the battery to an open flame or extremely high temperatures!
- Do not expose the device or the battery to liquids or extremely low air pressure!
- Do not drop the device or the battery!
- Do not try to change or charge the battery in the device!
- The device or the battery must be recycled or disposed of separately from household waste!

CAUTION: Failure to observe the safety instructions can result in fire, electric shock, and other injuries or damage to the device or other property. The housing is made of plastic with sensitive electronic components and batteries inside.

Connection diagram and configuration



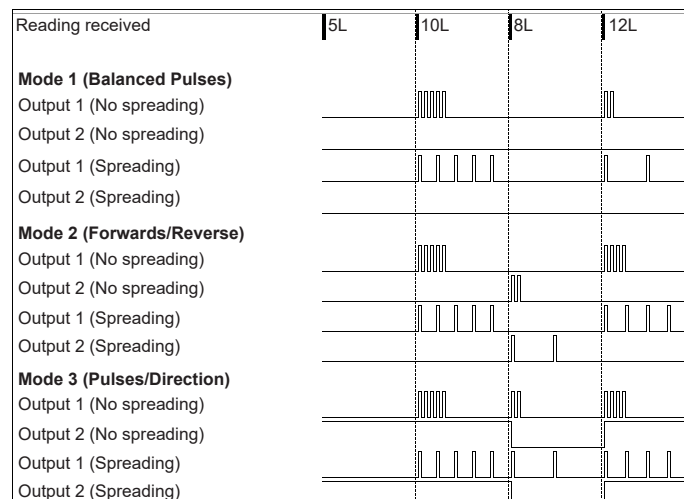
Pulse Modes

The Pulse Output Module can be configured for three different pulse output modes, as per below:

Mode	Mode 1 (Balanced pulses)	Mode 2 (Forwards/ Reverse)	Mode 3 (Pulses/ Direction)
Signal 1 (White)	Balanced pulses ^{**})	Forward pulses	Pulses
Signal 2 (Yellow)	None	Reverse pulses	Direction

^{**}) Balanced pulses: Reverse flow must be compensated by identical forward flow before more pulses are generated.

Pulse behaviour



Technical specifications

General	Dimensions max.: 45 x 115 x 40 mm Weight: 230 g Casing: ABS Colour: Grey Electronics and battery sealed Cable length: 3 m	
Compatible Meters	Manufacture date post January 2022:	iPERL 433 MHz in AMR (SensusRF) mode
	Manufacture date post May 2024:	640C 433 MHz in AMR and AMI modes
	Manufacture date post July 2024:	iPERL 433 MHz in AMI mode MeiStreamRF 433 MHz in AMR and AMI modes
Environmental Conditions	Storage and Operation:	Min -20 °C, Max +60 °C
	Protection Class:	IP68
Power Supply	Lithium battery, 3.6 VDC, 60 mA Battery life: 5–10 years depending on usage profile	
Pulse Output Specifications	Maximum Voltage: 24V Maximum Current: 20mA Max Power: 0.48VA (Watts)	
Radio Specification	433 MHz at 10mW	
Radio Protocol	Receiving:	Wireless M-Bus OMS V4 A/B T1-mode
	Configuration:	SensusRF
Mounting Bracket	The module can be fixed on a wall or pit lid with a mounting bracket which is part of the consignment.	
Recycling	The module must be recycled according to national rules for electronic devices with lithium batteries.	
Applied Standards	2014/53/EU (RED) 2011/65/EU (RoHS 2) WEEE EN 300 220-1 V3.1.1 EN 300 220-2 V3.2.1 EN 301 489-1 V2.2.3 EN 301 489-3 V2.3.2 EN 62479:2010 EN 60529:1991 + A1:2000 + A2:2013 EN 61010-1:2010/A1:2019 OMS Generation 4 Security Profile: B	
Configuration Interface	The module can be configured using SensusRF radio with SIRT and configuration software DIAVASO/FieldLogic	

CE declaration



<https://qr.xylemsales.com/ce-pom-433>