

Centralizing unit with 25 inputs

# LM 25 - M

## IMPULSE CENTRALIZING UNIT

Impulse centralizing unit with 25 inputs and RS-485 communication



### Description

**LM25-M** is a concentrator with 25 digital inputs, designed to concentrate the status of up to 25 logic signals, or the number of impulses received at each of the inputs.

In addition, the unit has the capacity to measure the activation / deactivation time of each of its inputs, depending on the prior programming of the unit's configuration. Therefore, it is a concentrator of timers, depending on the status of each of its inputs (0/1).

The unit allows the total time to be measured or the time of the most recent ON / OFF operation detected by the digital input. This configuration may be applied individually to each of the twenty-five digital inputs according to the installation requirements. The activation of these timers may be configured with the input open or closed, and each of the unit's inputs may be configured individually.

### Aplicación

- Reading any impulse-emitting device (up to 25 units). These parameters are useful to generate receipts or to define a price/unit cost.
- Integration of other types of consumption, such as: gas, water, etc. up to 25 meters as a central status detector for electrical operations or alarms.

### Features

<b>Power Supply</b>	85...265 Vac / 120...300 Vdc
Consumption	5 VA...6 VA / 3.5 W
Frequency	47...63 Hz
<b>Digital inputs</b>	25
Type	Free voltage input, opto-isolated input
Maximum current	50 mA
Maximum voltage	24 Vdc
Metering capacity	Impulses, status and and time activation or deactivation
Minimum impulse duration (T on / T off)	10 ms
Maximum impulse frequency	90 Hz
<b>Serial interface</b>	
Type	Three-wire RS-485 (A/S/B)
Transmission speed (configurable)	4,800, 9,600,19,200, 34,800, 57,600 bauds
Data bits	8
Parity	No parity, even, odd
Stop bit	1 or 2
<b>Environmental conditions</b>	
Operating temperature	-10 ... +60 °C
Relative humidity	5 – 95% (without condensation)
Maximum height	2,000 m
<b>Build features</b>	
Type of box	UL94 - V0 self-extinguishing plastic
Connection	1.5 mm <sup>2</sup> stiff cable / 1.0 mm <sup>2</sup> multi-wire cable
Attachment	<b>46277 DIN rail</b>
Cover	Lexan front panel
Terminals	IP 20
Dimensions	157.5 x 57.75 x 70 mm (8 modules, in accordance with <b>EN 43880</b> )
Weight	350 g
<b>Safety</b>	
Installation Category III	
<b>EN 61010</b> Double-insulated electric shock protection class II.	
<b>Standards</b>	
<b>EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-11, IEC61000, UL94, UNE-EN55011, RoSH</b>	

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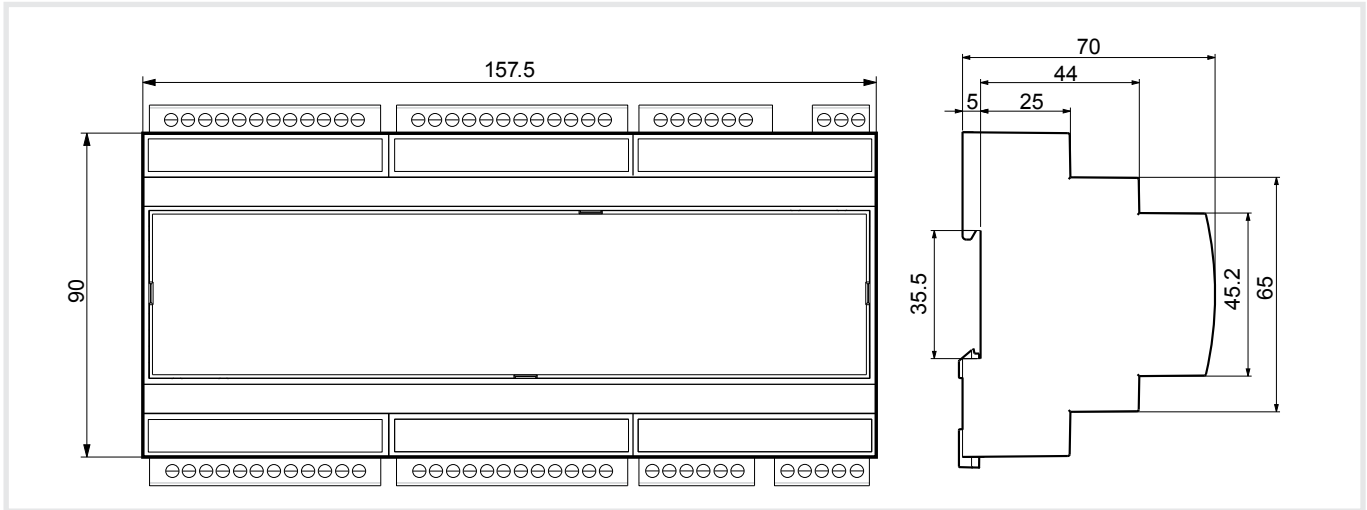
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**Dimensions**

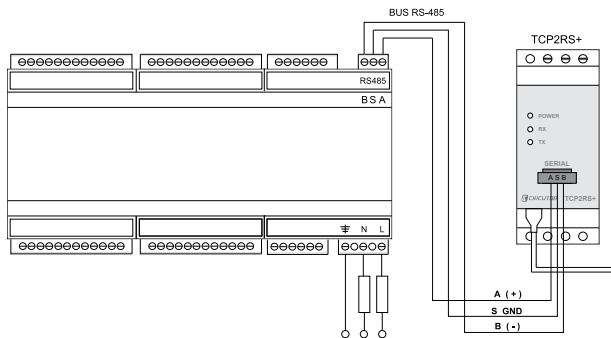


**References**

Optocoupled inputs	Relay outputs	Communications with the MODBUS (RTU) protocol	DIN Modules	Type	Code
25	-	RS-485	8	LM 25 - M	M31567

**Connections**

RS-485 communication connection detail



Digital input activation detail

