

Centralizing unit with 50 inputs

# LM 50 - TCP

## Impulse CENTRALIZING UNIT

Digital Impulse centralizing unit with 50 inputs, with Ethernet communications and RS-485 bus inputs



### Description

Impulse centralizing unit, with up to 50 devices. The inputs of the centralizing unit are optocoupled to read the said impulses and it also has a memory to store up to 32 bits of data

- It has two communications ports: RS-485 Port: It can be used to connect up to 31 **CIRCUTOR** units that can be monitored with the **PowerStudio** software. This port acts as a gateway from Ethernet to RS-485
- Ethernet 10Base / 100Base TX Port that can be used by the **PowerStudio** energy management software to carry out the read and write operations of the 50 inputs of the **LM**, and all other units in the RS-485 network.

### Application

- Reading any Impulse-emitting device (up to 50 units). These parameters are useful to generate receipts or define a price/unit cost
- Integration of other types of consumption, such as: gas, water, etc. or simply used to control the energy consumption of 50 meters
- As an alarm control station: acting on the status of the unit's outputs, being able to define an alarm for a change in status

### Features

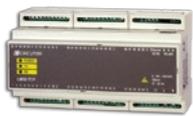
|   |  |
|---|--|
| <b>Power supply circuit</b>   | 230 Vac ( $\pm 20\%$ )                                     |
| Consumption   | 6 V·A  |
| Frequency   | 47...63 Hz   |
| <b>Digital inputs</b>   | 50 potential-free inputs                                   |
| Maximum current   | 50 mA  |
| Maximum voltage   | 5 V dc   |
| Metering capacity   | FFFF FFFF hexadecimal                                      |
| Minimum impulse duration, $t_{ON}$  | 50 ms  |
| Time between two pulses   | 50 ms  |
| Maximum mean Impulse frequency  | 10 Hz  |
| <b>Ambient conditions</b>   |  |
| Operating temperature   | 0 ... +50 °C   |
| Humidity of operation   | 25 ... 80%   |
| <b>Build features</b>   |  |
| Type of box   | Modular, self-extinguishing plastic material               |
| Fixing  | Adjustable to the symmetrical DIN profile 46277 (EN 50022) |
| Cover   | Lexan Front  |
| Terminals   | IP 20  |
| Dimensions  | 158.4 x 60 x 89.93 mm (9 modules)                          |
| Weight  | 390 g  |
| <b>Insulation</b>   | 2.5 kV - 50 Hz - 1min.                                     |
| <b>Safety</b>   |  |
| Category II, EN 61010   |  |
| Insulation voltage between the box enclosure and any terminal: 2500 V, 50 Hz, 1 min       |  |
| Insulation between the group of inputs / outputs and the power supply input: 1 G $\Omega$ |  |
| Insulation between the group of inputs and the box enclosure: 1 $\Omega$                  |  |
| <b>Standards</b>  |  |
| IEC 60664, VDE 0110, UL 94, IEC 801, EN 50081-1, EN 61010-1, EN 50082-1                   |  |

Centralizing unit with 50 inputs

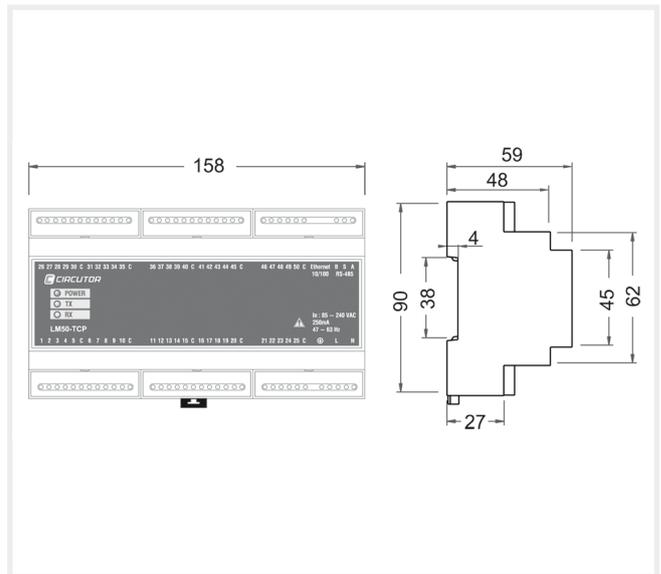
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### Dimensions



### References

| Optoinsulated inputs | Relay outputs | Communications with the MODBUS (TCP) protocol | Ethernet communications | DIN Modules | Type                  | Code   |
|----------------------|---------------|---|-------------------------|-------------|-----------------------|--------|
| 50                   | -             | RS-485  | Yes                     | 9           | LM 50 - TCP 19200 bps | M31531 |
| 50                   | -             | RS-485  | Yes                     | 9           | LM 50 - TCP 9600 bps  | M31541 |

### Connections

