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

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
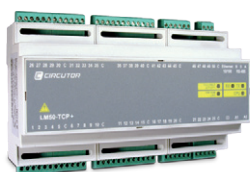
Features

Power supply circuit	230 Vac (± 20%)
Consumption	6 V·A
Frequency	47...63 Hz
Digital inputs	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
Communications	
Type	RS-485 (3 wires A/B/S)
Transmission speed	4800 - 115200 bps
Data bits	8
Parity	Without parity / even / odd
Stop bit	1/2
Network interface	
Type	Ethernet 10BaseT / 100BaseTX autodetectable RJ-45
Connector	RJ-45
Network protocol	TCP / UDP / Modbus TCP / HTTP
Ambient conditions	
Operating temperature	-10 ... +60 ºC
Humidity of operation	5 ... 95% (without condensation)
Altitude	2000 m
Build features	
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
Insulation	2.5 kV - 50 Hz - 1min.

Safety

Category II, EN 61010
Insulation voltage between the box enclosure and any terminal: 2500 V, 50 Hz, 1 minInsulation between the group of inputs / outputs and the power supply input: 1 GΩ Insulation between the group of inputs and the box enclosure: 1 Ω

Standards

IEC 60664, VDE 0110, UL 94, EN 61010-1, EN 55011, EN 610004-2, EN 61000-4-3. 61000-4-11. EN 61000-6-4, EN 61000-6-2. EN 61000-6-1. EN 61000-6-3. EN 61000-4-5 CE

CIRCUTOR

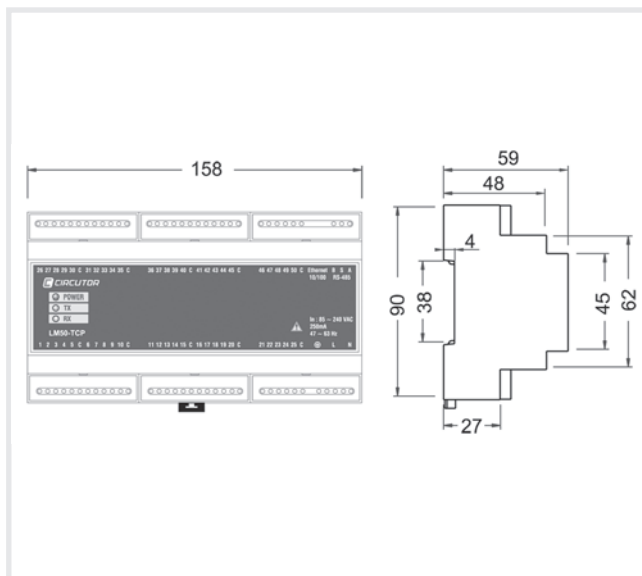**Centralizing unit with 50 inputs**

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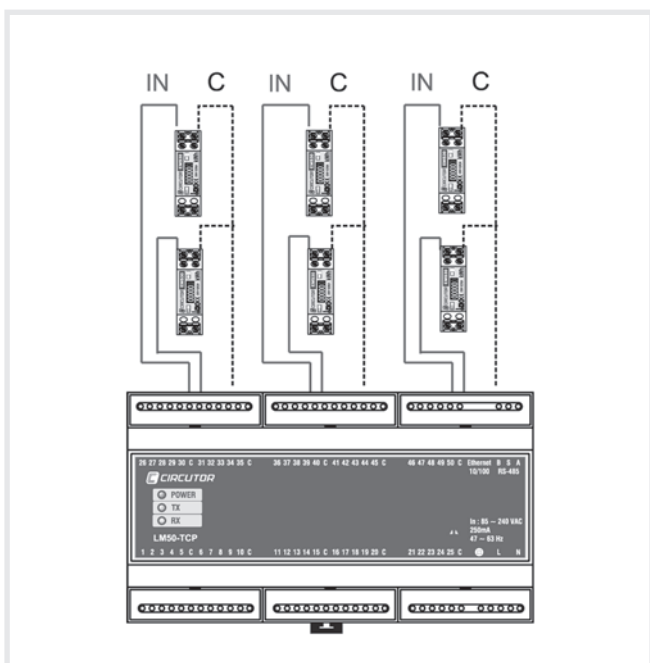with Ethernet communications and
RS-485 bus

Dimensions

References

Optoinsulated inputs	Relay outputs	Communications with the MODBUS (TCP) protocol	Ethernet communications	Protection with IP password	DIN Modules	Type	Code
50	-	RS-485 (3 wires, 4800 - 115200 bps, 8, without parity, par, impar, 1/2)	Si	Si	9	**LM 50 - TCP+**	**M31566**

Connections

LM 50 - TCP+, RS-485 Network connection to a PC

CIRCUTOR