

**Communication Interface
for Multichannel Power/Energy Meter**

Operating instructions

LAN Interface for Multichannel Meter - 1 DIN Module

Code	Description
ECSLG04	lateral communication interface suitable to read data from a Multichannel Meter and to make them available via a LAN connection. Data include: active and reactive energies and powers, voltage, currents, PF and frequency



**⚠ RISK OF ELECTRIC SHOCK,
BURNS OR EXPLOSION**

**This device must be installed and maintained ONLY by qualified and duly authorized personnel.
During its installation, be sure there is no voltage applied.**

LAN Interface for Multichannel Meter - Shorthand Guide

1) System Architecture

- One possible scheme of the system is described below. In the picture the LAN interface is connected to a PC. Instead, LAN interface can be connected to LAN network.



2) Quick Start

- Install the interface on the DIN rail, beside the meter.
The infrared port of the LAN interface must face-up the infrared port of the meter.
Make sure that the slide clicks, for a stable installation.

3) Supply

- 230 VAC ±20%

4) Default Setting

- IP address: 192.168.1.253
- Subnet Mask: 255.255.255.0
- Gateway: 192.168.1.1
- DHCP OFF
- Primary DNS: 8.8.8.8
- Secondary DNS: 156.154.70.1
- Administrator Rights:
 - Username: admin
 - Password: admin

5) Frontal Panel

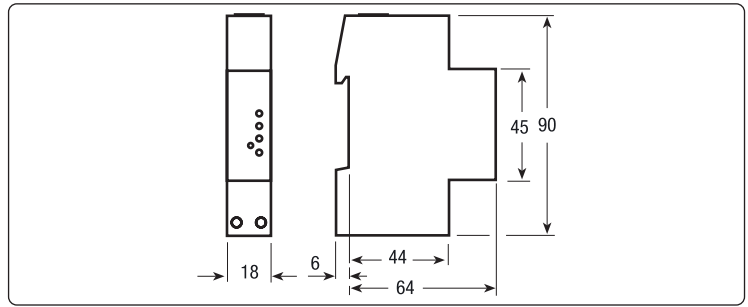
- **ACT Led (yellow)**: Blinking means LAN activity.
- **SPEED Led (green)**: The led is turned on if the LAN is 100 Mbit/s, it's turned off if the LAN is 10 Mbit/s.
- **FDX Led (yellow)**: The led is turned on if the LAN is full-duplex, it's turned off if the LAN is half-duplex.
- **ON Led (green)**: Power supply on.

6) Reset Button Usage

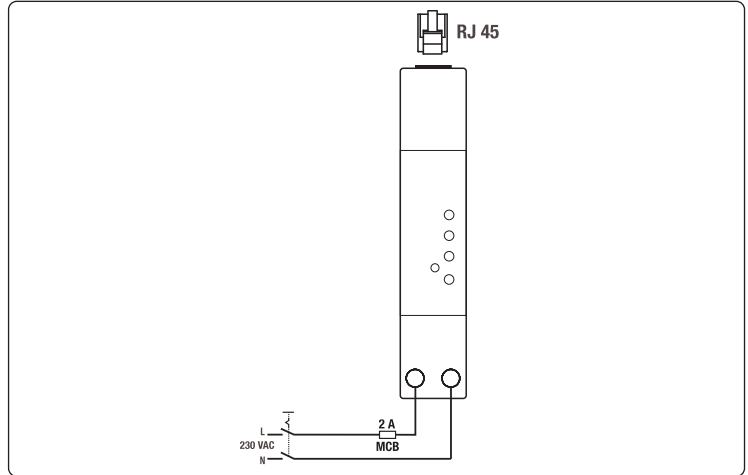
- A short pushing, shorter than 3 seconds → Device reboot.
- A push longer than 3 seconds → **SPEED (green)** and **FDX (yellow)** LEDs starts blinking alternatively.
In this phase, by releasing the Reset button, the default network parameters are restored and the device reboots.
Otherwise, by keeping the button pushed for at least other 4 seconds, the 2 LEDs starts blinking together, and the procedure is canceled.

Stand 28-02-2017
IIST212-01

Dimension



Wiring diagram



Note

Technical data

ENGLISH

Data in compliance with IEEE 802.3 AS, IEC 60950, EN 61000-6-2, and EN 61000-4-2

ECSL604 LAN Interface for Multichannel Meter

General characteristics

• Housing	DIN 43880	DIN	1 Module
• Mounting	EN 60715	35 mm	DIN
• Depth		mm	70

Power supply

• Nominal Voltage U_n		VAC	230
• Power rating		W	≤1.5
• Voltage range		VAC	0.80 x U_n ... 1.20 x U_n
• Nominal frequency		Hz	50
• Frequency range		Hz	45 ... 65

Operating features

• Data transfer speed	LAN limited	Mbit/s	≤100
• User interface for setup and management	Web browser	-	yes

LAN Interface

• HW interface		-	connector RJ 45
• SW protocol		-	TCP/IP
• Application level protocols		-	HTTP - SNMP - DHCP - DNS

Interface to measuring instrument

• HW interface	optical IR	n°	2 (Tx, Rx)
• SW protocol		-	proprietary

Safety acc. to IEC 60950

• Pollution degree		-	2
• Overvoltage category		-	II
• Working voltage		V	300
• Clearance		mm	≥4
• Creepage distance		mm	≥4
• Test voltage	impulse (1,2/50 μs) peak value		
	on AC power supply	kV	2.5
	on telecommunication network	kV	1.5
	50 Hz 1 min.	kV	2.5
• Housing material flame resistance	UL 94	class	V0

Connection terminals

• Type cage	screw head Z +/-	POZIDRIV	PZ0
• Terminal capacity	solid wire min. (max)	mm ²	0.15 (2.5)
	stranded wire with sleeve min. (max)	mm ²	0.15 (4)

Environmental conditions

• Operating temperature		°C	-25 ... +55
• Limit temperature of storage		°C	-25 ... +70
• Relative humidity		%	≤80
• Vibrations	sinusoidal vibration amplitude at 50 Hz	mm	±0.25
• Protection class	acc.to IEC 60950	-	II
• Degree of protection	housing when mounted in front	-	IP20