finder
RELAYING INNOVATION

7E.85.8.400.xxxx

MID ENERGY METER FOR CURRENT TRANSFORMER

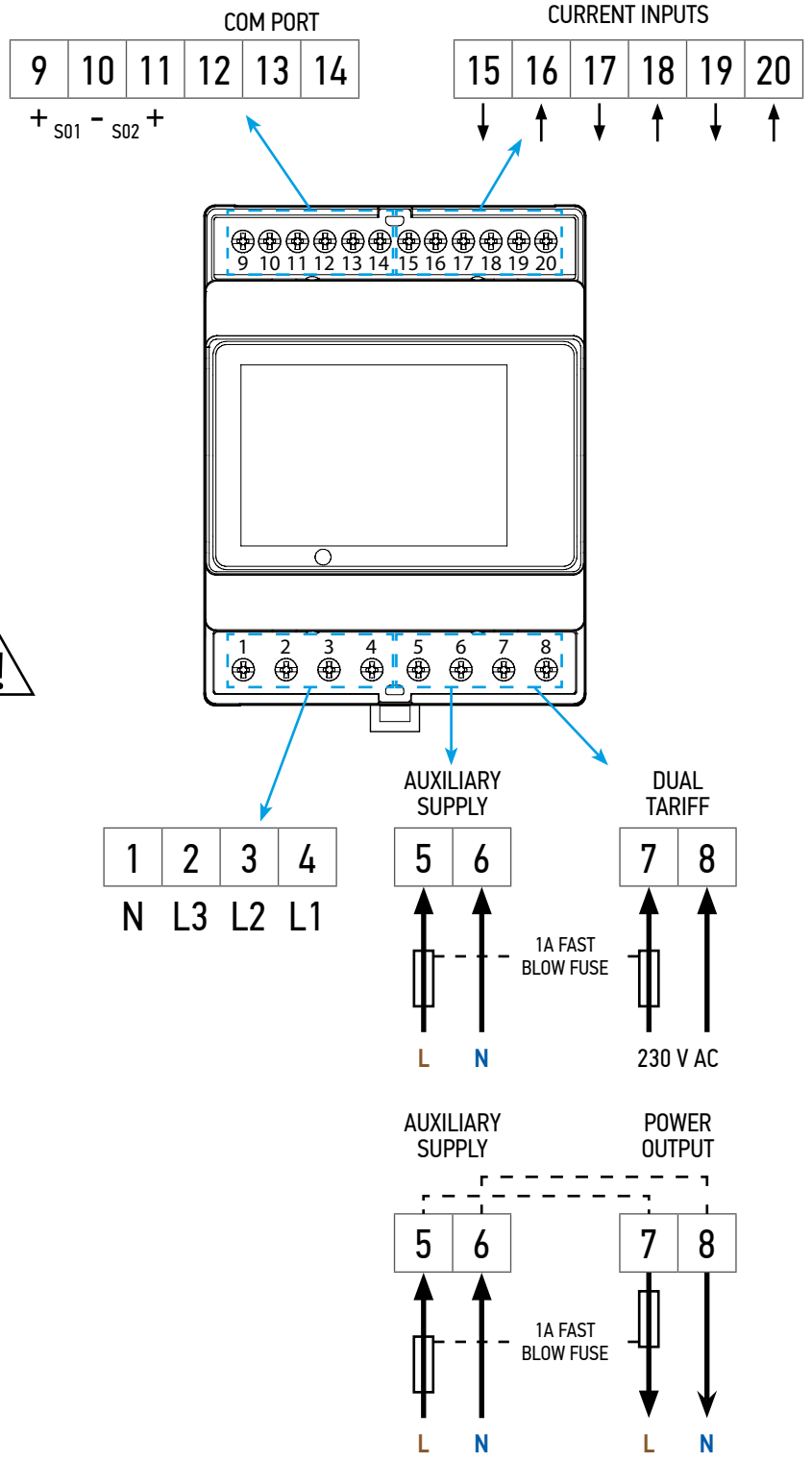


DOWNLOAD USER MANUAL

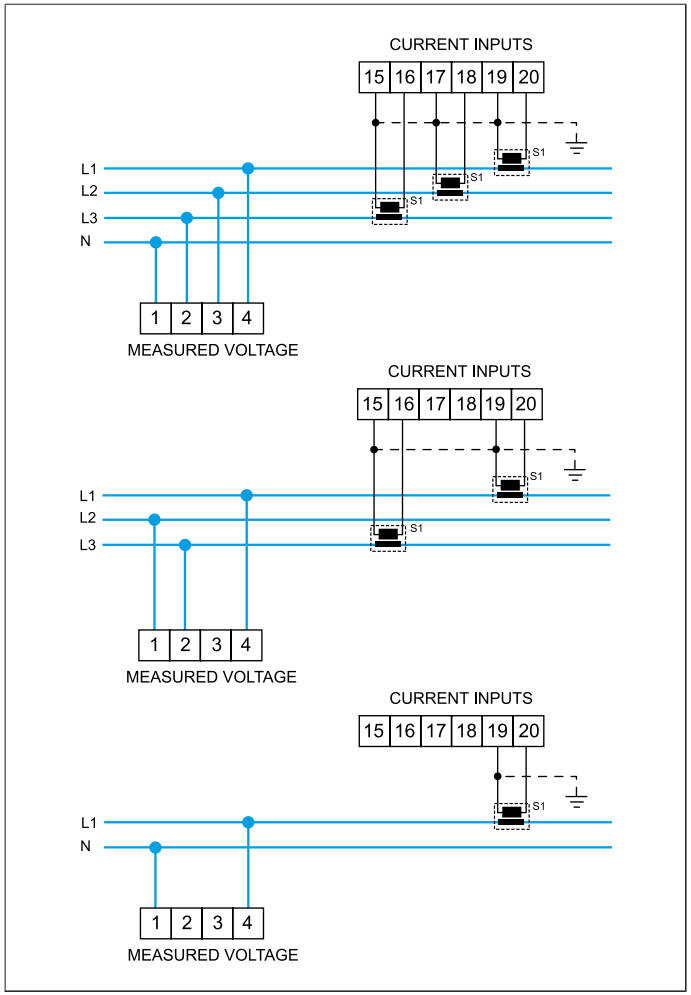
SCARICA IL MANUALE UTENTE
TÉLÉCHARGER LE MANUEL D'UTILISATION
BEDIENUNGSANLEITUNG HERUNTERLADEN
DOWNLOAD DE GEBRUIKERSHANDLEIDING
DESCARREGUE O MANUAL DO USUÁRIO
DESCARGA DEL MANUAL DE USUARIO
STÁHNĚTE SI UŽIVATELSKOU PŘÍRUČKU
TÖLTSE LE A FELHASZNÁLÓI KÉZIKÖNYVET
POBIERZ INSTRUKCJĘ OBSŁUGI
DESCĂRCAȚI MANUALUL DE UTILIZARE

Model	Outputs	Tariffs
7E.85.8.400.0210	2 X Pulse + Modbus RS485	1
7E.85.8.400.0212	2 X Pulse + Modbus RS485	2
7E.85.8.400.0310	2 X Pulse + Mbus	1
7E.85.8.400.0312	2 X Pulse + Mbus	2

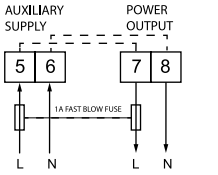
General technical data	
Nominal voltage	3x230/400 V AC
Operating range L-N	100-277 V AC
Operating range L-L	100-480 V AC
Nominal current / Maximum current	5/6 A
Minimum measured current	0,05 A
Maximum measured current with CT (see next page for details)	* 10.000 A
FrequencWorking frequency	50/60 Hz
Max peak current	120 A for 0,5s
Power consumption voltage circuit	<2W / 10VA
Power consumption current circuit	< 1 VA
Ambient temperature	-40...+70°C
Aux Power circuit	
Operating range V AC	100-480 V AC
Operating range V DC	140-680 V DC
Power consumption	<10 VA
Nominal current Aux circuit	0,01 A
MID	
MID certification body	0598
MID certificate number	0598/MID/B/24/061



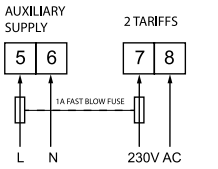
WIRING DIAGRAM Current and Voltage Inputs



7E.85.8.400.021x Modbus RS485 RTU, Dual tariffs
For Modbus RTU, the following RS485 communication parameters can be configured from the Set-up menu:
Baud rate: 2400, 4800, 9600, 19200, 38400 bps
Parity: NONE (default)/ODD/EVEN
Stop bits: 1 or 2
RS485 network address nnn - 3-digit number, 001 to 247

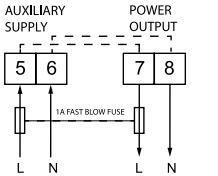


7E.85.8.400.0210, Single tariff
RS485
9 10 11 12 13 14
+S01 −S02+ SH B- A+

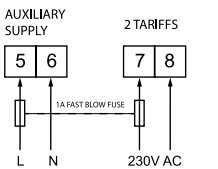


7E.85.8.400.0212, Dual tariffs
RS485
9 10 11 12 13 14
+S01 −S02+ SH B- A+

7E.85.8.400.031x Mbus, Dual Tariffs
The meter provides an M-Bus port for remote communication.
The protocol fully comply with EN13757-3.
The following communication parameters can be configured via M-bus communication.
Baud rate: 600, 1200, 2400, 4800, 9600 bps
Parity: NONE/EVEN(default)/ODD
Stop bits: 1 or 2
M-Bus network primary address: nnn - 3 digits number from 001 to 250
M-Bus network secondary address: 00 00 00 00 to 99 99 99 99



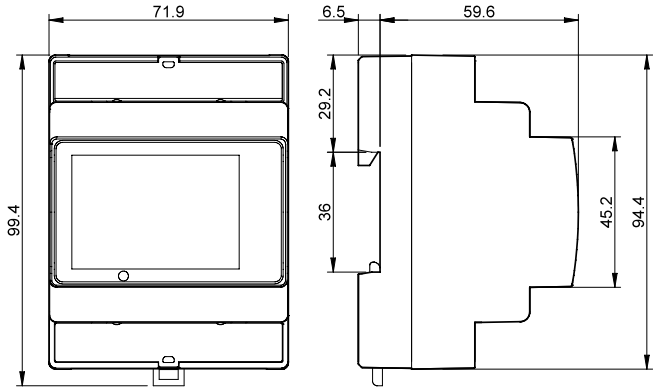
7E.85.8.400.0310, Single tariff
M-Bus
9 10 11 12 13 14
+S01 −S02+ M+ M-



7E.85.8.400.0312, Dual tariffs
M-Bus
9 10 11 12 13 14
+S01 −S02+ M+ M-

Terminals Capacity	COMM/Pulse/2T	0.5~2.5 mm^2
	Load	
Screw Torque	COMM/Pulse/2T	0.4 Nm
	Load	

Dimension and terminals features



CT SETTING

*** WARNING**: Following MID directive, the CT setting can be done ONLY 1 TIME.
This is necessary to avoid changes (due to scams) after installation.
Referring to the 7E.85 owner manual:
https://cdn.findernet.com/app/uploads/7E85-user-manual.pdf
CT2 is the secondary value of CT (is 5 for CT 100/5). CT1 is the CT-Ratio (is 20 for CT 100/5).