

# **DEFAULT PASSWORD AND DISPLAY VALUES**

Default password to enter "Pro-3" menu: 0000

### **Display values:**

By pressing the keys, the meter changes from the automatic scrolling display to the manual display. Here, by pressing the buttons, all available display values can be displayed via a main menu and a submenu. If no key is pressed for 30 seconds, the meter returns to automatic

A table with all display values can be found on the back of this sheet.

# Values which are display in automatic mode:

Current direction "F" = forward; "r" = reverse

Total forward active energy

Total reverse active energy

Total active power

OUT CT1 CT2 CT3 N

IN CT1 CT2 CT3 N



# **WIRING DIAGRAM**

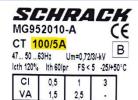
CT1 (IN) Terminal k (S1) - CT1 (OUT) Terminal I (S2) CT2 (IN) Terminal k (S1) - CT2 (OUT) Terminal I (S2) CT3 (IN) Terminal k (S1) - CT3 (OUT) Terminal I (S2)

Neutral conductor Terminal "N" Terminal 10/11 Voltage Phase 1 Terminal 12/13 Voltage Phase 2 Voltage Phase 3 Terminal 14/15

Terminal 16/17 not used

Terminal 18/19 S0 output "forward" (18 +) Terminal 20/21 S0 output "reverse" (20 +) Terminal 22/23 for M-Bus or Modbus interface Terminal 24/25 external tariff (230V AC)

# **INFORMATION ABOUT CT SETTINGS**



Example: Primary current = 100A Secondary current = 5A

Set the ratio as it is given!



	Secondary cur.	Primary cur.
СТ	5	0100

If the counter is connected to power for the first time, the display alternately shows the message "Set CT" and "CT5 0005". If any key is pressed, the display stops on the page "CT5 0005" and the first digit from the left flashes. This number is the value for the secondary current, here you can select between /1A or /5A and then confirm it by pressing both keys at the same time for 3 seconds. Then select the primary current by selecting all 4 digits from left to right. Select each digit and confirm each digit by holding both buttons at the same time. When the last digit is confirmed, the transformer ratio is fixed and cannot be changed, and the meter begins to measure.

# **CERTIFICATES AND DECLARATION OF CONFORMITY**







# Documents are available upon request.

# **CONTACT**

Seybelgasse 13 +43 1866855900 www.schrack.at Tel.: 1230 Wien - Österreich +43 18668599000 info@schrack.at

# Short user manual

Order number: MGX20006 Order number: MGX20406

PRO380 S CT PRO380 Modbus CT

Order number: MGX20306

PRO380 M-Bus CT

Electronic 3-Phase energy meter for DIN rail with MID conformity

042023V1.00

# CEMXX 000 000

# The ct ratio is settable only once!

### **SAFETY INFORMATION**

This instruction does not contain all the safety instructions applicable to the operation of the meter. It may be necessary to take further measures due to special operating conditions, local regulations or ordinances.

# QUALIFIED PERSONNEL

The energy meter may only be installed and connected by qualified personnel. Qualified are those who are authorized to commission, switch on, ground and mark devices, systems and circuits in accordance with safety standards and regulations.

### **IMPORTANT INFORMATION**

The housing of the energy meter is sealed and prohibited to open.

Opening the energy meter or breaking the seals voids the warranty.

# INFORMATION REGARDING THE MECHANICAL AND EMV-ENVIRONMENT

The meter can be installed...

- ...indoor or outdoor in a meter housing.
- ...in an environment with low shock and vibration influences according to the 2014/32/EC directive mechanical environment "M1.
- ...in electromagnetic environment "E2" according to 2014/32 / EC directive.

# **TECHNICAL INFORMATION**

Voltage: 230/400V AC

Current: 0,015 - 1,5(6) A Frequency: 50Hz

Measurement: Active and Reactive energy in

forward and reverse direction

Accuracy:

Consumption: <10VA - <2W Width: 4TE (70mm)

LED output: 10.000 lmp/kWh, 2,5ms S0 output: 10.000 Imp/kWh, 30ms

Adjustable via touch keys

Work temperature: -25°C to +70°C

Air humidity: 75% in middle, briefly 95%

0.05 - 0.25kHz Registered harmonic:

red blinking: consumption > 4W LED:

output rate = consumption 5+3 Digits (99999,111 kWh)

Wire diameter

Display:

Main terminals: max. 10mm<sup>2</sup>

min. 2.5mm<sup>2</sup>

Additional terminals: max. 2,5mm<sup>2</sup>

# MID-MARKING AND CHECKSUM

Meter with MID declaration of conformity can be used for billing purpose.

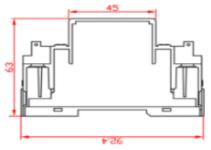
Checksum is as following:

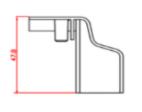
Marking example for MID declaration:

0D104797

# **HOUSING DIMENSIONS**

Width: 70 mm Height without cover: 92,4 mm Depth: 63 mm Height with cover: 140 mm





# DISPOSOAL

The responsibility belongs to the manufacturer: Inepro Metering BV

Pondweg 7

2153 PK Nieuw Vennep The Netherlands











# Automatic scrolling display: default 10 seconds

Current direction
1F 2F 3r

Total FW active energy
123456.78
Σ 1 kW h

Total RV active energy
123456.78
REV Σ 2 kW h

Total active power
00045.00
Σ 0 kW

① MGX20300 & MGX20400

② MGX20400

**Button scroll:** press the buttons for less than 3 seconds to scroll. After 30 seconds of in no interaction the meter goes back to automatic scroll mode.

