

GENERAL WARNINGS
DANGER: Heart attack, burns and other injuries. Disconnect the power supply and load before installing the analyzer. Protect terminals with covers.

Preliminary MID setting (first switch-on only)
Before switching on the instrument and proceeding with the preliminary MID setting, check the integrity of the seals (Fig. 2).

Part number (analyzer side) EM330-DIN
AVx: 400 V L-L AC, 50 Hz A CT 3-wire or 4-wire three phase system

Product (Fig. 1)
A: Current, voltage and communication connection terminals.
B: Backlit LCD display with sensitive touch screen areas.

Connection diagrams
Diagram Description: Fig. 4 One phase, 2 wires (CT connection). Fig. 5 One phase, 2 wires (VT/CT connection).

Initial assumptions
The check is based on some initial assumptions on the system to be measured. Specifically, it is assumed that each system phase is characterized by:
• a load with PF=0.766 (<40°) power factor

Menu map (Fig. 22)
Area A: Main menu. Area B: Parameter menu. Area C: Information menu.
Commands: Navigation, Parameter settings, Information.

Setting a parameter (Fig. 23)
Procedure example: how to set P=24.
NOTE: The first displayed value is the current one. Settings are applied when the value is confirmed.

Measurement menu (Fig. 24)
General measurement pages:
00 Total imported active energy\*\*
01 Total active power\*\*
02 Total imported active energy\*\*

Measurement faults
If the measured signal exceeds the admitted alarm limits, a specific message appears:
• EEK blinking: the measured value is out of limits
• EE on: the measurement depends on a value that is out of limits

Parameter menu (Fig. 25)
Shared pages:
PASS P1 Enter current password
nPASS P2 Change password
SYSTEM P3 System type

Pages specific to the S3 version (Fig. 27)
Page Code Description Values
Pulse P12 Pulse time (ON time, milliseconds) 30/100

Pages specific to the M1 version (Fig. 27)
Page Code Description Values
Pulse P12 Pulse time (ON time, milliseconds) 30/100

Pages specific to the O1 version (Fig. 27)
Page Code Description Values
Pulse P12 Pulse time (ON time, milliseconds) 30/100

General warnings
DANGER: Heart attack, burns and other injuries. Disconnect the power supply and load before installing the analyzer.

Preliminary MID setting (first switch-on only)
Before switching on the instrument and proceeding with the preliminary MID setting, check the integrity of the seals (Fig. 2).

Part number (analyzer side) EM330-DIN
AVx: 400 V L-L AC, 50 Hz A CT 3-wire or 4-wire three phase system

Product (Fig. 1)
A: Current, voltage and communication connection terminals.
B: Backlit LCD display with sensitive touch screen areas.

Connection diagrams
Diagram Description: Fig. 4 One phase, 2 wires (CT connection). Fig. 5 One phase, 2 wires (VT/CT connection).

Initial assumptions
The check is based on some initial assumptions on the system to be measured. Specifically, it is assumed that each system phase is characterized by:
• a load with PF=0.766 (<40°) power factor

Menu map (Fig. 22)
Area A: Main menu. Area B: Parameter menu. Area C: Information menu.
Commands: Navigation, Parameter settings, Information.

Setting a parameter (Fig. 23)
Procedure example: how to set P=24.
NOTE: The first displayed value is the current one. Settings are applied when the value is confirmed.

Measurement menu (Fig. 24)
General measurement pages:
00 Total imported active energy\*\*
01 Total active power\*\*
02 Total imported active energy\*\*

Measurement faults
If the measured signal exceeds the admitted alarm limits, a specific message appears:
• EEK blinking: the measured value is out of limits
• EE on: the measurement depends on a value that is out of limits

Parameter menu (Fig. 25)
Shared pages:
PASS P1 Enter current password
nPASS P2 Change password
SYSTEM P3 System type

Pages specific to the S3 version (Fig. 27)
Page Code Description Values
Pulse P12 Pulse time (ON time, milliseconds) 30/100

Pages specific to the M1 version (Fig. 27)
Page Code Description Values
Pulse P12 Pulse time (ON time, milliseconds) 30/100

Pages specific to the O1 version (Fig. 27)
Page Code Description Values
Pulse P12 Pulse time (ON time, milliseconds) 30/100

General warnings
DANGER: Heart attack, burns and other injuries. Disconnect the power supply and load before installing the analyzer.

Preliminary MID setting (first switch-on only)
Before switching on the instrument and proceeding with the preliminary MID setting, check the integrity of the seals (Fig. 2).

Part number (analyzer side) EM330-DIN
AVx: 400 V L-L AC, 50 Hz A CT 3-wire or 4-wire three phase system

Product (Fig. 1)
A: Current, voltage and communication connection terminals.
B: Backlit LCD display with sensitive touch screen areas.

Connection diagrams
Diagram Description: Fig. 4 One phase, 2 wires (CT connection). Fig. 5 One phase, 2 wires (VT/CT connection).

Initial assumptions
The check is based on some initial assumptions on the system to be measured. Specifically, it is assumed that each system phase is characterized by:
• a load with PF=0.766 (<40°) power factor

Menu map (Fig. 22)
Area A: Main menu. Area B: Parameter menu. Area C: Information menu.
Commands: Navigation, Parameter settings, Information.

Setting a parameter (Fig. 23)
Procedure example: how to set P=24.
NOTE: The first displayed value is the current one. Settings are applied when the value is confirmed.

Measurement menu (Fig. 24)
General measurement pages:
00 Total imported active energy\*\*
01 Total active power\*\*
02 Total imported active energy\*\*

Measurement faults
If the measured signal exceeds the admitted alarm limits, a specific message appears:
• EEK blinking: the measured value is out of limits
• EE on: the measurement depends on a value that is out of limits

Parameter menu (Fig. 25)
Shared pages:
PASS P1 Enter current password
nPASS P2 Change password
SYSTEM P3 System type

Pages specific to the S3 version (Fig. 27)
Page Code Description Values
Pulse P12 Pulse time (ON time, milliseconds) 30/100

Pages specific to the M1 version (Fig. 27)
Page Code Description Values
Pulse P12 Pulse time (ON time, milliseconds) 30/100

Pages specific to the O1 version (Fig. 27)
Page Code Description Values
Pulse P12 Pulse time (ON time, milliseconds) 30/100

General warnings
DANGER: Heart attack, burns and other injuries. Disconnect the power supply and load before installing the analyzer.

Preliminary MID setting (first switch-on only)
Before switching on the instrument and proceeding with the preliminary MID setting, check the integrity of the seals (Fig. 2).

Part number (analyzer side) EM330-DIN
AVx: 400 V L-L AC, 50 Hz A CT 3-wire or 4-wire three phase system

Product (Fig. 1)
A: Current, voltage and communication connection terminals.
B: Backlit LCD display with sensitive touch screen areas.

Connection diagrams
Diagram Description: Fig. 4 One phase, 2 wires (CT connection). Fig. 5 One phase, 2 wires (VT/CT connection).

Initial assumptions
The check is based on some initial assumptions on the system to be measured. Specifically, it is assumed that each system phase is characterized by:
• a load with PF=0.766 (<40°) power factor

Menu map (Fig. 22)
Area A: Main menu. Area B: Parameter menu. Area C: Information menu.
Commands: Navigation, Parameter settings, Information.

Setting a parameter (Fig. 23)
Procedure example: how to set P=24.
NOTE: The first displayed value is the current one. Settings are applied when the value is confirmed.

Measurement menu (Fig. 24)
General measurement pages:
00 Total imported active energy\*\*
01 Total active power\*\*
02 Total imported active energy\*\*

Measurement faults
If the measured signal exceeds the admitted alarm limits, a specific message appears:
• EEK blinking: the measured value is out of limits
• EE on: the measurement depends on a value that is out of limits

Parameter menu (Fig. 25)
Shared pages:
PASS P1 Enter current password
nPASS P2 Change password
SYSTEM P3 System type

Pages specific to the S3 version (Fig. 27)
Page Code Description Values
Pulse P12 Pulse time (ON time, milliseconds) 30/100

Pages specific to the M1 version (Fig. 27)
Page Code Description Values
Pulse P12 Pulse time (ON time, milliseconds) 30/100

Pages specific to the O1 version (Fig. 27)
Page Code Description Values
Pulse P12 Pulse time (ON time, milliseconds) 30/100



EM330
Installation and use instructions
5 A CT connection three-phase energy analyzer with Modbus, pulse or M-Bus interface

EM330
Installation and use instructions
5 A CT connection three-phase energy analyzer with Modbus, pulse or M-Bus interface

EM330
Installation and use instructions
5 A CT connection three-phase energy analyzer with Modbus, pulse or M-Bus interface

EM330
Installation and use instructions
5 A CT connection three-phase energy analyzer with Modbus, pulse or M-Bus interface

EM330
Installation and use instructions
5 A CT connection three-phase energy analyzer with Modbus, pulse or M-Bus interface

EM330
Installation and use instructions
5 A CT connection three-phase energy analyzer with Modbus, pulse or M-Bus interface

EM330
Installation and use instructions
5 A CT connection three-phase energy analyzer with Modbus, pulse or M-Bus interface

EM330
Installation and use instructions
5 A CT connection three-phase energy analyzer with Modbus, pulse or M-Bus interface

EM330
Installation and use instructions
5 A CT connection three-phase energy analyzer with Modbus, pulse or M-Bus interface

EM330
Installation and use instructions
5 A CT connection three-phase energy analyzer with Modbus, pulse or M-Bus interface

EM330
Installation and use instructions
5 A CT connection three-phase energy analyzer with Modbus, pulse or M-Bus interface

EM330
Installation and use instructions
5 A CT connection three-phase energy analyzer with Modbus, pulse or M-Bus interface

EM330
Installation and use instructions
5 A CT connection three-phase energy analyzer with Modbus, pulse or M-Bus interface

