UPM304 – ELETTRICAL CONNECTIONS AND WIRING

7.3 Voltage and current inputs

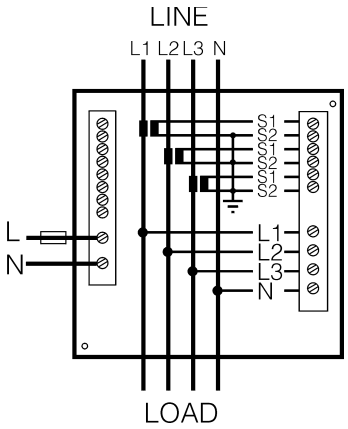
Connect the voltage and current inputs according to the pictures below:

NOTE
In case of Rogowski coils, please check that YELLOW cable edge is connected to S1 (signal) and the WHITE cable edge is connected to S2 (common).

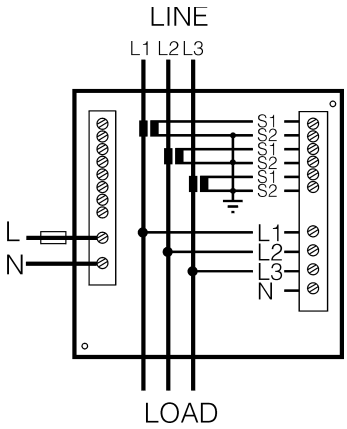
WARNING!
Check that:

1. the connections are made respecting the polarities if the instrument must carry out bi-directional measurements to obtain correct measurements.
2. the connections are made according to the diagrams in the following section, respecting the cyclic order of phases. Important: L1 of the voltage input = L1 of the current input
3. when voltage or current transformers (PT / CT) are used, in the input and output polarities must be respected.
4. before disconnecting current input the load power supply is cut off.
If this is not possible, the secondary CT must be short-circuited.

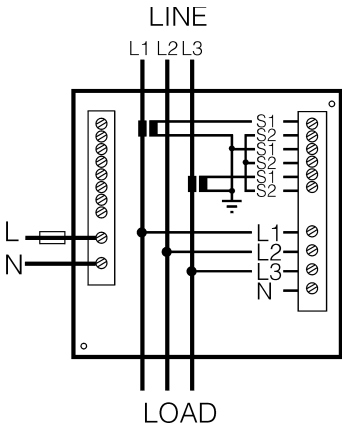
WIRING DIAGRAMS WITH CURRENT TRANSFORMERS CONNECTION AND VOLTAGE DIRECT CONNECTION



3phases, 4 wires, 3CTs

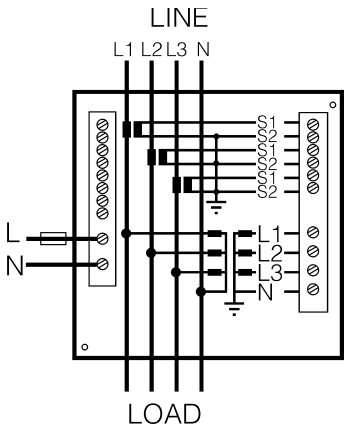


3phases, 3wires, 3CTs

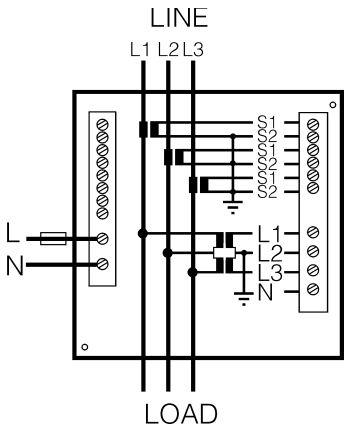


3phases, 3wires, 2CTs

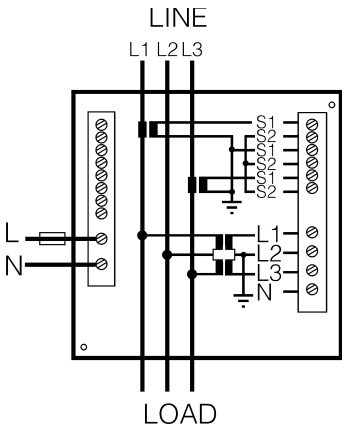
WIRING DIAGRAMS WITH CURRENT TRANSFORMERS CONNECTION AND VOLTAGE TRANSFORMERS CONNECTION



3phases, 4 wires, 3CTs



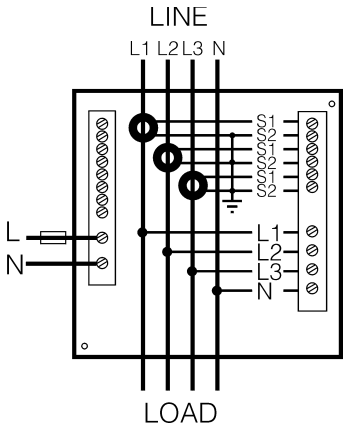
3phases, 3wires, 3CTs



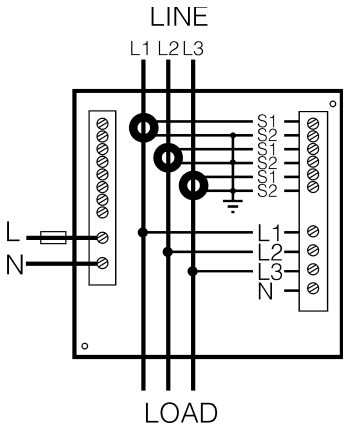
3phases, 3wires, 2CTs

algodue® ELETTRONICA
Innovative Electronic Systems

WIRING DIAGRAMS WITH ROGOWSKI COILS CONNECTION AND VOLTAGE DIRECT CONNECTION (on request)



3phases, 4 wires, 3coils



3phases, 3wires, 3coils

7.3.1 Voltage specifications

The standard voltage specifications are listed below:

NOTE
The label on the meter defines the real configuration.

Input voltage	600 (750) V_{AC}max L-L
Input impendance	> 1.3 MOhm
Load	max 0.15 VA per phase

7.3.2 Current specifications

The phase and polarity of the current input are essential parameters for a proper instrument operation.
The stardard current specifications are listed below:

NOTE
The label on the meter defines the real configuration.

Rated input current	1/5 A , programmable
Input impendance	0.02 Ohm approximately
Load	max 0.5 VA per phase
Isolation	150V_{RMS} max between phases
Rogowski coils input (optional)	200÷49995 A on request

NOTES:

- Extract from manual (1MAUXX304019)
- Subject to change without notice