

Selection Guide: WAGO Measurement Technology

The Right Solution for Every Application

| Measurement Devices 879, 750, 857 and 2857 Series | Energy Meters | | | 3-Phase Power Measurement Modules | | | | 3-Phase Power Measurement Module | 1-Phase Power Measurement Module | Through-Hole Current Signal Conditioner | Current Signal Conditioner | Voltage Signal Conditioner | |
|--|--|-------------------|-------------------|---|--|--|---|--|--|--|---|-------------------------------|---------------|
| Illustration | | | | | | | | | | | | | |
| Application | Measurement, indication, billing (MID approval) | | | Measurement and evaluation with the WAGO I/O System | | | | AC/DC current measurement via external shunt | Measurement in the medium-voltage range | Measurement, evaluation and recording at a distance from the control level | | | |
| Input voltage | 3 x 230 / 400 VAC | 3 x 230 / 400 VAC | 3 x 230 / 400 VAC | 3~ 277 / 480 VAC 2 x 277 VDC | 3~ 277 / 480 VAC 2 x 277 VDC | 3~ 400 / 690 VAC | 3~ 277 / 480 VAC 2 x 277 VDC | 3~ 20 kV, exclusively via sensors per IEC 61869-7 | 3~ 400 / 690 VAC | 500 VAC/DC | | 300 VAC/DC | |
| Input current | Direct: 65 A | Direct: 65 A | 1 A / 5 A* | 1 A (750-493)* 5 A (750-493/ 000-001)* | 1 A (750-494)* 5 A (750-494/ 000-001)* | 1 A (750-495)* 5 A (750-495/ 000-001)* to 4000 A (750- 495/000-002)** | Depending on external shunt (50 ... 300 mV) | 300 A, exclusively via sensors per IEC 61869-8 | 1 A (2857-570/ 024-001)* 5 A (2857-570/ 024-005)* To 4000 A (2857- 570/024-000)** | Direct: max. 8 AAC/DC | Via hall sensor: max. 100 AAC/DC | Direct: max. 6 AAC/DC | |
| Output | Modbus®, M-Bus and 2 S0 interfaces | | | Process data in the WAGO I/O System | | | | RS-485 Serial Interface (Modbus-RTU) Digital output | Analog output module (±10 V / ±20 mA) Digital output Relay output: (max. 6 A) | | Analog output module (±10 V / ±20 mA) Digital output | | |
| Energy consumption | x | x | x | x | x | x | x | x | x | x | | | |
| Active, apparent and reactive energy/power | x | x | x | x | x | x | x | x | x | x | | | |
| Phase position | x | x | x | x | x | x | x | x | x | x | | | |
| Rotary field detection | x | x | x | | x | x | x | x | x | | | | |
| Power factor | x | x | x | (x) | x | x | x | x | x | | | | |
| Four-quadrant operation (inductive, capacitive, consumer, generator) | x | x | x | | x | x | x | x | x | | | | |
| Neutral conductor measurement | | | | | | x | | | x | | | | |
| Specialty function | Display and Bluetooth® | | | | | | | microSD slot | Digital output as S0 interface | | | | |
| Other product variants | | | | | Extended temperature range: -20 ... +60 °C: 750-494/025-000 (1 A), 750-494/025-001 (5 A) | 750 XTR: 750-495/040-000 (1 A), 750-495/040-001 (5 A), 750-495/040-002 (Rogowski Coil) | | | | | | | |
| Housing width | 72 mm (4TE) | 72 mm (4TE) | 35 mm (2TE) | 12 mm | 12 mm | 24 mm | 12 mm | 24 mm | 72 mm (4TE) | 22.5 mm | 22.5 mm | 6 mm | 6 mm |
| Item number | 879-3000 | 879-3020 | 879-3040 | See information on current | See information on current | See information on current | 750-494/000-005 | 750-495/040-010 | See information on current | 2857-569 | 2857-550 | 857-551 | 857-560 |
| EAN number | | | | 4055143374385 4055143374422 | 4050821548232 4050821548249 | 4050821548256 4050821548270 4050821841593 | 4055143361057 | 4055144024395 | 4055143827539 4055143287461 4055143829199 | 4055143907323 | 4050821676997 | 4050821476917 | 4055143481571 |
| Note | Plug-in current transformers, split-core current transformers, Rogowski coils, voltage taps – see "Selection Guide: WAGO Current Transformers," pages 24 ... 25 | | | | | | | | | | | | |

* Only with a current transformer

** Only with a Rogowski coil