

Power and Energy Measurement With the WAGO-I/O-SYSTEM 750 and 750 XTR

WAGO's 3-phase power measurement modules measure and process all relevant metrics from a three-phase supply network. They provide system operators with increased insight into energy consumption by specific machines and systems, as well as the ability to perform comprehensive network analysis.




Advantages:

- Measure machine and system energy consumption values
- Detect and process all relevant metrics
- Comprehensive network analysis
- Connect to the fieldbus-independent, compact and flexible WAGO-I/O-SYSTEM

The dark gray modules from the 750 XTR Series can also be used in eXTReme environments and offer these advantages:

- eXTReme temperatures: -40 ... +70 °C
- eXTReme isolation: up to 5 kV of impulse voltage
- eXTReme vibration resistance: up to 5g of acceleration

4

Image			
Energy consumption	✓	✓	✓
Voltage	3 x 480 VAC	3 x 480 VAC	3 x 480/690 VAC
Current	1 A (750-493) 5 A (750-493/000-001)	1 A (750-494) 5 A (750-494/000-001) External Shunts (750-494/000-005)	1 A (750-495) 5 A (750-495/000-001) Rogowski Coil (750-495/000-002)
Active energy/power	✓	✓	✓
Phase position	✓	✓	✓
Reactive power/energy	via function block	✓	✓
Apparent power/energy	via function block	✓	✓
Rotary field detection		✓	✓
Power factor	(✓)	✓	✓
Frequency measurement	✓	✓	✓
Four-quadrant operation (inductive, capacitive, consumer, generator)		✓	✓
Harmonic analysis (up to the 41st harmonic)		✓	✓
Neutral conductor measurement			✓
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	12 mm	12 mm	24 mm
Item number	750-493	750-494	750-495