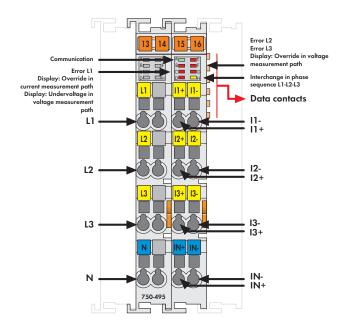
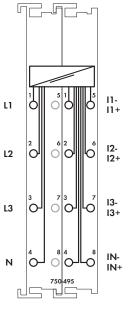
## **3-Phase Power Measurement Module**



The 750-495 3-Phase Power Measurement Module measures electrical data in a three-phase supply network. The voltage is measured via network connection to 11, L2, L3 and N. The current of the three phases is fed to 11.1, IL2, IL3 and IN (two clamping points each +,-) via current transformers or via Rogowski coils for the 750-495/000-002 module. The 750-495 Module transmits metrics (e.g., reactive/apparent/effective power, energy consumption, power factor, phase angle, frequency, over-/undervoltage) directly into the process image, without requiring high computing power from the controller.

Description		Item No.	Pack. Unit
3-Phase Power M	leasurement Module	750-495	1
(690V/1A)			
3-Phase Power M (690V/5A)	leasurement Module	750-495/000-001	1
	easurement Module	750-495/000-002	1
(690V/RC) Rogov		/ 50-4/5/ 000-002	
Accessories		ltem No.	Pack. Unit
Miniature WSB G	uick marking system		
(Grannana)	plain	248-501	5
Loperstand	with marking	see Section 11	
and the state			
Approvals			
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Conformity marking	3		
Conformity marking	]		
Conformity marking	]		
Conformity marking	]		
Conformity marking	3		
Technical Date		CAGE CLAMP®	
Technical Date			G 28 14
Technical Date Wire connection Cross sections		CAGE CLAMP®	G 28 14
Technical Date Wire connection Cross sections Strip lengths		CAGE CLAMP <sup>®</sup> 0.08 mm <sup>2</sup> 2.5 mm <sup>2</sup> / AW0	G 28 14
Technical Date		CAGE CLAMP <sup>®</sup> 0.08 mm <sup>2</sup> 2.5 mm <sup>2</sup> / AW0 8 9 mm / 0.33 in	G 28 14
Technical Date Wire connection Cross sections Strip lengths Width	α	CAGE CLAMP <sup>®</sup> 0.08 mm <sup>2</sup> 2.5 mm <sup>2</sup> / AW0 8 9 mm / 0.33 in 12 mm	G 28 14



Both comprehensive metrics and harmonic analysis up to the 41st harmonic permit extensive network analysis via the fieldbus. Metrics allow the operator to optimize the supply to a drive or machine, protecting the system from damage and failure.

Insulation failures can be detected and prevented via current measurement performed in the neutral conductor. The 4-quadrant display indicates the type of load (inductive, capacitive) and whether it is an energy consumer or producer.

Technical Data	
Number of measurement inputs	7 (3 voltage measurement inputs,
	4 differential current measurement inputs)
Rated voltage	V <sub>LN</sub> = 400 V AC; V <sub>LL</sub> = 690 V AC
Input resistance voltage path (typ.)	1429 kΩ
Measuring current (max.)	1 A (750-495)
	5 A (750-495/000-001)
	Rogowski Coils RT500/RT2000
	(750-495/000-002)
Input resistance current path (typ.)	22 mΩ (750-495)
	5 mΩ (750-495/000-001)
	44 kΩ (750-495/000-002)
Resolution	24 bits
Frequency range, power supply frequency	45 Hz 65 Hz
Frequency range, harmonics analysis	0 Hz 3300 Hz
Max. operating frequency	15,9 kHz
Signal form	any periodic signals (taking the maximum
	frequency into account)
Measuring error for current and voltage	Max. 0.5 % (of the upper range value)
Measuring procedure	True RMS measurement
Measuring cycle time	Adjustable for arithmetic mean value,
	Min_Max_Values
Measured values	Line-to-line voltage, power output, energy,
	power factors, mains frequency, harmonic
	analysis (up to the 41st harmonic), THD
Power supply	via system voltage internal bus (5 V)
Current consumption (internal)	100 mA
Rated surge voltage	6 kV
Overvoltage category	III
Degree of pollution	2
Bit width	2 x 128 bits data
	2 x 64 bits control/status

WAGO Kontakttechnik GmbH & Co. KG Subject to design changes

05.01.2015

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