TECHNICAL DATA SINGLE-PHASE AND THREE-PHASE ENERGY METERS AND ENERGY CONSUMPTION INDICATOR

	EVA12-32A WSZ14DSR-32A MID WSZ15D-32A MID WSZ15DE-32A WZR12-32A WSZ110 MID	WSZ15D-65A MID	DSZ15D-3x80A MID DSZ15DE-3x80A DSZ15DM-3x80A MID DSZ15DZ-3x80A MID DSZ15DZE-3x80A DSZ15DZMOD-3x80A MID DSZ14DRS-3x80A MID DSZ14DRSZ-3x80A MID DSZ180CEE MID	DSZ15WD-3x5A MID DSZ15WDM-3x5A MID DSZ14WDRS-3x5A MID	MFSR12DX-230V	ZGW16WL-IP KNX RTU 886
Rated voltage Extended range	230 V, 50 Hz -20%/+15%	230 V, 50 Hz -20%/+15%	3x230/400 V, 50 Hz -20%/+15%	3x230/400 V, 50 Hz -20%/+15%	230 V, 50 Hz -20%/+15%	230 V, 50 Hz -20%/+15%
Reference current I_{ref} (Limiting current I_{max})	5(32)A WSZ110: Rated current 16 A	10(65)A	3x10(80)A DSZ180CEE-32A: Rated current 32 A DSZ180CEE-16A: Rated current 16 A	3x5(6)A	16 A	–
Internal consumption active power	0.4 W EVA12, WZR12: 0.5 W	0.4 W	0.5 W per path DSZ14DRS: 0.8 W at L1	0.5 W per path DSZ14WDRS: 0.8 W at L1	0.6 W	ZGW16WL-IP: 0.9 W
Display	LC display 7 digits, therefrom 1 or 2 digits after the decimal point	LC display 7 digits, therefrom 1 or 2 digits after the decimal point	LC display 7 digits, therefrom 1 or 2 digits after the decimal point	LC display 7 digits, therefrom 1 digit after the decimal point	–	–
Display instantaneous values	WSZ15D: With a key you can select active power, voltage and current WSZ15DE, WSZ110: Active power displayed for 5 seconds every 30 seconds EVA12, WZR12: active power	With a key you can select active power, voltage and current	With a key you can select total active energy and active energy resettable, power, voltage and current per phase tariff 1 and tariff 2 (not DSZ180)	With a key you can select total active energy and active energy resettable, power, voltage and current per phase	–	–
Accuracy class ±1%	B	B	B	B	–	–
Inrush current according to accuracy class B	20 mA	40 mA	40 mA	10 mA	–	–
Operating temperature	-25/+55°C EVA12, WZR12: -10/+55°C	-25/+55°C	-25/+55°C	-25/+55°C	-20/+50°C	ZGW16WL-IP: -20/+50°C KNX RTU 886: -5/+45°C
Interface (not DSZ180, EVA12, WZR12, WSZ110)	DSZ15DM and DSZ15WDM with M-Bus interface. DSZ15DZMOD with Modbus interface. DSZ14DRS, DSZ14DRSZ, DSZ14WDRS and WSZ14 DRS with interface for the ELTAKO RS485 bus. Otherwise pulse output S0 according to DIN EN 62053-31, potential-free through an optocoupler, max. 30 V DC/20 mA and min. 5 V DC. Impedance 100 ohms.				S0 or IR interface	ZGW16WL-IP: Modbus KNX RTU 886: KNX and Modbus interface
	Pulse length 30 ms	Pulse length 30 ms	Pulse length 30 ms	Pulse length 30 ms		
	2000 Imp./kWh	2000 Imp./kWh	1000 Imp./kWh	10 Imp./kWh		
Terminal cover sealable	With sealing cap PK18. For the current path 1 sealing cap is required (not WSZ110)	With sealing cap PK18. For the current path 1 sealing cap is required	Terminal cover claps (not DSZ180)	Terminal cover claps	–	–
Protection degree	IP50 for mounting in distribution cabines with protection class IP51 WSZ110: IP54		IP50 for mounting in distribution cabines with protection class IP51 DSZ180: IP54		IP20	ZGW16WL-IP: IP20 KNX RTU 886: IP20
Maximum conductor cross section	6 mm² WSZ15D, WSZ15DE: L terminals 16 mm² (not WSZ110)	L terminals 16 mm², N and S0 terminals 6 mm²	N and L terminals 16 mm², S0, M-Bus, Modbus and RS485 bus terminals 6 mm² DSZ15D/DE/DM/DZ/DZE/DZMOD-3x80A, DSZ14DRS/DRSZ-3x80A: L terminals 25 mm² (not DSZ180)		6 mm²	ZGW16WL-IP: 6 mm² KNX RTU 886: 2.5 mm²

The N terminal of three-phase energy meters must be connected, if not the electronics might be destroyed.

To comply with DIN VDE 0100-443 and DIN VDE 0100-534, a Type 1 or Type 2 surge protection device (SPD) must be installed.

Compliance with: EN 50470