



Manuals and documents in further languages:
https://eltako.com/redirect/DSZ180CEE-16A_MID

Technical data page 10-30.

DSZ180CEE-16A MID

MID

Portable three-phase energy meter with CEE plug 16 A and CEE coupling 16 A. Suitable for indoor and outdoor use. MID-compliant and therefore approved for use for billing purposes. Maximum current 16 A, standby loss 0.5 watt per path only. Protection class housing: IP68, protection class plug/coupling: IP44.

Housing dimensions 180 x 86 x 82 mm, connection cable 1.5 m (including plug and coupling).
Accuracy class B (1%).
This portable three-phase energy meter measures active energy by means of the current between input and output.
The internal power consumption of max. 0.5 watt active power per path is neither metered nor indicated.
The inrush current is 40 mA.
The display can only be read when the power supply is on. However, the consumption is saved to a non-volatile memory and is displayed immediately after a power failure.
The digital display has 7 digits. Two decimal places are indicated up to 99999.99 kWh.
Above 100000.0 kWh there is only one decimal place.
Power consumption is shown by a LED flashing at a rate of 100 times per kWh.

DSZ180CEE-16A MID	Portable three-phase energy meter, with MID	**Art. No. 28016128**	

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

	EVA12-32A **WSZ14DRS-32A** MID **WSZ14DRSE-32A** **WSZ15D-32A** MID **WSZ15DE-32A** **WZR12-32A** **WSZ155** 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
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%
Reference current I_{ref} (Limiting current I_{max})	5(32) A WSZ155: Rated current 16 A	10(65) A	3x10(80) A DSZ180CEE-32A: Rated current 32A DSZ180CEE-16A: Rated current 16A	3x5(6) 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
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, WSZ155: 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	-40/+70°C EVA12, WZR12: -10/+55°C	-40/+70°C	-40/+70°C	-40/+70°C
Interface (not DSZ180, EVA12, WZR12, WSZ155)	DSZ15DM and DSZ15WDM with M-Bus interface. DSZ15DZMOD with Modbus interface. DSZ14DRS, DSZ14DRSZ, DSZ14WDRS, WSZ14DRS and WSZ14DRSE 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.			
	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			Terminal cover claps (not DSZ180)	Terminal cover claps
Protection degree	IP50 for mounting in distribution cabines with protection class IP51 WSZ155: housing: IP68, plug/coupling: IP44 (WSZ155FBSS IP54), PRCD IP66		IP50 for mounting in distribution cabines with protection class IP51 DSZ180: housing: IP68, plug/coupling: IP44	
Maximum conductor cross section	6 mm^2 WSZ15D, WSZ15DE: L terminals 16 mm^2 (not WSZ155)	L terminals 16 mm^2, N and S0 terminals 6 mm^2	N and L terminals 16 mm^2, S0, M-Bus, Modbus and RS485 bus terminals 6 mm^2 DSZ15D/DE/DM/DZ/DZE/DZMOD-3x80A, DSZ14DRS/DRSZ-3x80A: L terminals 25 mm^2 (not DSZ180)	

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

According to DIN VDE 0100-443 and DIN VDE 0100-534, the installation of a surge arrester (SPD) is mandatory.
ELTAKO offers suitable, standard-compliant surge arresters of types 1, 2, and 3 – see Chapter 8, "Surge Arresters."

Compliance with: EN 50470