



# DIZ

## Compact Industry Meter



- ✓ For industrial applications and billing purposes
- ✓ Compact standard housing 6 pitch
- ✓ DIN-Rail mounting acc. to IEC 60715
- ✓ Bus capable: Modbus with RS485 interface
- ✓ Impulse output S0
- ✓ LC-display with 8 digits
- ✓ Measuring of instantaneous values
- ✓ With EC type-examination certificate acc. to directive 2004/22/EC (MID = Measuring Instrument Directive)

# Compact Industry Meter - DIZ

<b>NOMINAL VOLTAGE</b>	4-wire meter	3 × 230/400 V (direct) 3 × 58/100 V; 3 × 63/110 V; 3 × 230/400 V (transformer)
<b>OPERATING VOLTAGE</b>		(0,8...1,15) × Un
<b>CURRENT</b>		0,25 - 5(65) A (direct) / 1(6) A (transformer)
<b>STARTING CURRENT</b>		20 mA / 2mA
<b>SHORT CIRCUIT CURRENT</b>		30 × In, 10 ms
<b>FREQUENCY</b>		50 Hz
<b>ACCURACY</b>	active/reactive energy	cl. 1 / cl. 2 acc. to EN 50470-1, -3
<b>MEASURING TYPES</b>	active/reactive energy	+A, -A, +R, -R
<b>ENERGY REGISTERS</b>	internal clock switching	2 tariff register + 1 tariffless
<b>DATA RETENTION TIME</b>		without voltage in the EEPROM, at least 20 years
<b>DISPLAY</b>	version number of digits digitness digit size in the value range display of instantaneous values	LCD 8 5,3 approx. 4 × 6 (W × H) mm scrolling
<b>OPERATION</b>	operation button	for operation of display
<b>DATA INTERFACES</b>	RS485	acc. to EC14908-1, -2, -3, -4 (300...38400 baud)
<b>OUTPUT</b>	number SO-output pulse length	1 maximum 27 V DC, 27 mA (passive) 50 ms
<b>ENERGY SUPPLY</b>	capacitor power supply	from the measuring voltage
<b>POWER CONSUMPTION</b>	voltage path	< 1 W
<b>EMC-CHARACTERISTICS</b>	isolation resistance surge voltage  resistance against HF-fields	isolation: 4 kV AC, 50 Hz, 1 min EMC: 4 kV, impulse 1,2/50 μs, 2 Ω, ISO: 6 kV, impulse 1,2/50 μs, 500 Ω 10 V/m (under load)
<b>TEMPERATURE RANGE</b>	specified operating range limit range for operation, storage and transport	-25 °C...+55 °C  -40 °C...+70 °C
<b>RELATIVE HUMIDITY</b>		max. 95 %, non-condensing, acc. to IEC 62052-11, EN 50470-1 and IEC 60068-2-30
<b>HOUSING</b>	dimensions class of protection degree of protection housing degree of protection terminals material fire characteristics	6TE = 107,5 × 89,5 × 64,0 (B × M × T) mm II IP 20 IP 20 polycarbonate glass-fibre reinforced, without halogen, recyclable acc. to IEC 62052-11
<b>ENVIRONMENTAL CONDITIONS</b>	mechanical electromagnetic planned site of installation	M1 acc. to Measuring Instruments Directive E2 acc. to Measuring Instruments Directive indoor acc. to EN 50470-1
<b>WEIGHT CONNECTION</b>		approx. 450 g
<b>CROSS-SECTION</b>	current- / neutral terminals auxiliary terminals	maximum 25 mm <sup>2</sup> (direct) / maximum 4 mm <sup>2</sup> (transformer) maximum 2,5 mm <sup>2</sup> (direct) / maximum 2,5 mm <sup>2</sup> (transformer)
<b>FURTHER FEATURES</b>	measuring of instantaneous values	power, voltage, current, frequency and power factor

Product specifications are subject to change without notice!