NXT4

Three phase meter for commercial, industrial and advanced residential applications

- ✓ ... Direct connection at up to 120 A
- ✓ ... Integrated 100 A disconnection relay solution acc. to EN 62055-31 and application class UC3
- ✓ ... Enhanced impulse withstand voltage 12 kV
- ✓ ... Housing materials in accordance with UL94V-0
- ✓ ... Expandable with VARIOMOD NXT^{GPRS} modem

EMH metering
GmbH & Co. KG

Neu-Galliner Weg 1
19258 Gallin
GERMANY

Tel. +49 38851 326-0
Fax +49 38851 326-1129

E-mail info@emh-metering.com
Web www.emh-metering.com

EN As of 16.11.2016
NXT4-DAB-E-1.10

NXT4 three phase meter for commercial, industrial and advanced residential applications

		Direct connected meter up to 120 A	Direct connected meter with internal cut-off relay up to 100 A	Transformer connected meter
Voltage	4-wire meter	3 x 230/400 V 3 x 220/380 V 3 x 240/415 V	3 x 230/400 V 3 x 220/380 V 3 x 240/415 V	3 x 230/400 V 3 x 220/380 V 3 x 240/415 V 3 x 58/100 V
Current		5(120) A	5(100) A	1(6) A, 5(20) A
Frequency		50 Hz		
Accuracy	Active energy Reactive energy	Cl. 1 (IEC 62052-11, IEC 62053-21), Cl. B (DIN EN 50470-1, -3) Cl. 2 (IEC 62053-23)		
Housing	Dimensions (H x W x D), attachment eye pulled out	325 x 179 x 100 mm	369 x 179 x 100 mm	325 x 179 x 100 mm
	Protection class Degree of protection of housing/ terminal block Housing material Fire characteristics	II acc. to IEC 62052-11 IP 54/IP 31 acc. to IEC 60529 Polycarbonate fibre-glass reinforced, non-halogen, recyclable in acc. with UL94 V-0 und IEC 62052-11		
Weight		approx. 1,3 kg	approx. 1,6 kg	approx. 1,2 kg
Pulse values	LED Output	500 Imp./kWh [kvarh] 250 Imp./kWh [kvarh]		10 000 Imp./kWh [kvarh] 5 000 Imp./kWh [kvarh]
Types of measurement		+P, -P, +Q, -Q, Q1, Q2, Q3, Q4, S		
Energy registers	Quantity	Max. 32 tariff registers + 8 tariffless registers, each with 15 pre-values		
Maximum registers	Quantity Measuring period	Max. 8 maximum registers, each with 15 pre-values 1, 5, 10, 15, 30, 60 min (adjustable)		
Load profile	Max. number of channels Registry period Typ. memory depth for 1 channel Recording type	16 1, 5, 10, 15, 30, 60 min (adjustable) Up to 3 years for a period length of 15 min Power, energy, energy feed		
Real time clock	Clock drift Synchronisation Battery power reserve	Within ± 5 ppm By data interface Max. 8 years		
Control inputs	System voltage	Max. 2		
Display	Design Number of characters	LC Display with background lighting 8-character field for (measurement) values, 10-character field for OBIS codes and cursor for status information		
Operation	Mechanical button Optical sensor	For calling up the display and resetting (sealable) Optical display button via D0 interface		
Data interfaces	Optical data interface Electrical data interface Data logs	D0 RS485, CL0 DLMS, IEC 62056-21		
Outputs	Quantity Opto-MOSFET	Max. 5 58... 240 V AC/DC, max. 0,1 A For pulse outputs, instantaneous energy tariff, excess consumption signalling, tamper detection, switching output		
Energy supply	Switching power supply Mains failure buffering time	3-phase via the voltage circuits > 200 ms		
power consumption per phase (basic meter)	Voltage circuit Current path at I_N	<1,5 VA/1 W <0,007 VA		
EMC characteristics	Impulse withstand voltage	For inputs/outputs: 6 kV (Impuls 1,2/50 µs, RSource = 500 Ω) For main terminals: 8 kV (Impuls 1,2/50 µs, RSource = 2 Ω), 12 kV (Impuls 1,2/50 µs, RSource = 40 Ω)		
	AC voltage test Emitted interference	4 kV (1 min, 50 Hz) Class B acc. to EN 55022		
	Resistance against RF fields	30 V/m (under load)	10 V/m (under load)	30 V/m (under load)
Temperature range	Specified operating range Limit range for operation Limit range for storage and transport	-25 °C...+55 °C -40 °C... +70 °C -40 °C...+70 °C		
Humidity		Max. 95 %, non-condensing, acc. to IEC 62052-11, EN 50470-1 and IEC 60068-2-30		
Environmental conditions	Mechanical Electromagnetic Intended place of use	M1 acc. to the Measuring Instruments Directive (2014/32/EC) E2 acc. to the Measuring Instruments Directive (2014/32/EC) Indoor work places acc. to EN 50470-1		
Further features	Recording of instantaneous values Installation check Tamper detection Buffer battery	Yes Yes For magnetic interference, opening of terminal cover and housing Replaceable battery for reading the meter via display and D0 interface; for detection of tampering in voltage-free state		

Subject to technical modifications!

EMH metering GmbH & Co. KG • Neu-Galliner Weg 1 • 19258 Gallin • GERMANY • Tel. +49 38851 326-0 • info@emh-metering.com • www.emh-metering.com