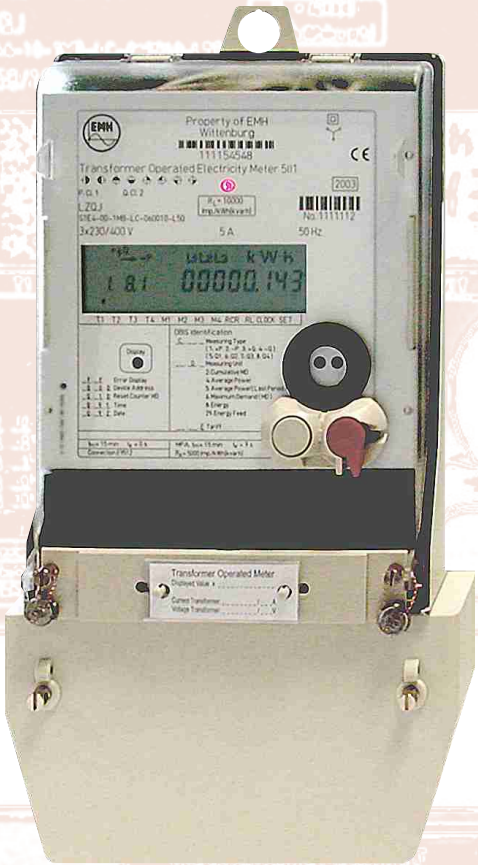
Technical Specification

- ✓ Remote meter reading
- ✓ Remote configurable
- ✓ Detection of momentary values
- ✓ With optical fibre interface



LZQJ

4-Quadrant-/Combi Meter

with Load Profile Memory

EMH
Elektrizitätszähler
GmbH & Co KG
Südring 5
D-19243 Wittenburg

Measuring Device	• Voltage (-20%, +15%)	4L: 3x58/100V ... 3x240/415V 3L: 3x100V ... 3x415V
	• Current	1(6)A, 5A, 1A, 5(10)A, 5(20)A, 5(60)A, 10(100)A
	• Further voltages/currents	
	• Frequency	45 .. 65Hz
	• Accuracy (standard)	Cl 0.5 (IEC/DIN EN 62053-21) reactive energy Cl 2.0 (IEC/DIN EN 62053-23)
	• Accuracy (option)	active energy Cl 0.2 (IEC/DIN EN 62053-22) reactive energy 2%
	• Meter constant (LED)	programmable
Tariff Device	• Energy measurement	32 registers + 8 tariffless with max 15 historical values each
	• Maximum measurement	32 registers with max 15 historical values each
	• Measurement period	1, 5, 10, 15, 30, 60 minutes (configurable)
	• Load profile memory (configurable) (at t_m=15min)	1 .. 32 channels, memory depth: approx. 317 days with 1 channel
	• Tariff system	configurable by customer
	• Data retention time	> 10 years
Display	• LC-Display	dimensions: 84 x 24 mm range for data: height 8 mm range for OBIS code: height 6 mm alternatively 4 rows with 20 characters each
Tariff Switch, Real Time Clock	• Adjustable via	optical interface D0 or electrical interface
	• Accuracy	within +/- 5ppm
	• Running reserve with SuperCap	150 h
	• Running reserve with Li-Battery	> 20 years
Ripple Control Receiver	• Adjustable via	optical interface D0 or electrical interface
	• Protocols	all practicable
	• Frequency, operate voltage	adjustable
	• Outputs	8 channels
Interfaces	• Data exchange, configuration	optical interface D0 acc. to IEC/DIN EN 62056-21, electrical interface RS-232, RS-485 or CL0
Inputs	• 7 control inputs	system voltage, potential free (optionally one of these as S0 input, not potential-free)
Outputs	• For the output of several switching states, e.g. energy impulses, measuring period, tariff states, special customer switches etc.	max 7 x S0 or MOSFET **or** 2 relays plus 5 x S0 or MOSFET S0 max 27V DC 27mA MOSFET max 250V AC/DC, 100mA Relays max 250V AC/DC, 100mA
	• **Optical fibre interface** for the	connection of an **Optical Fibre Seperation Box**
Mains Buffering	• Switched-mode power supply	> 500ms
Power Consumption	• Voltage path	< 2 VA / phase
	• Current path	< 2.5 VA / phase (directly connected) < 0.5 VA / phase (transformer connected)
Isolation Resistance	• Alternating voltage	4kV, 50Hz, 1min
	• Surge voltage	8kV, Impuls 1,2/50ms
Mechanical System	• Dimensions	approx. 178 x 327 x 59.4 (B x H x T) mm
	• Weight	1.35 kg
	• Class of protection	Class II appliance
	• Housing	Polycarbonate
Temperature Range	• Operate / Limit	-25°C .. +55°C / -40°C .. +70°C
	• Storage, Transport	-40°C .. +70°C
Relative Humidity	• Operating	90% at 40°C, non-condensing