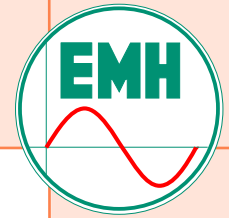
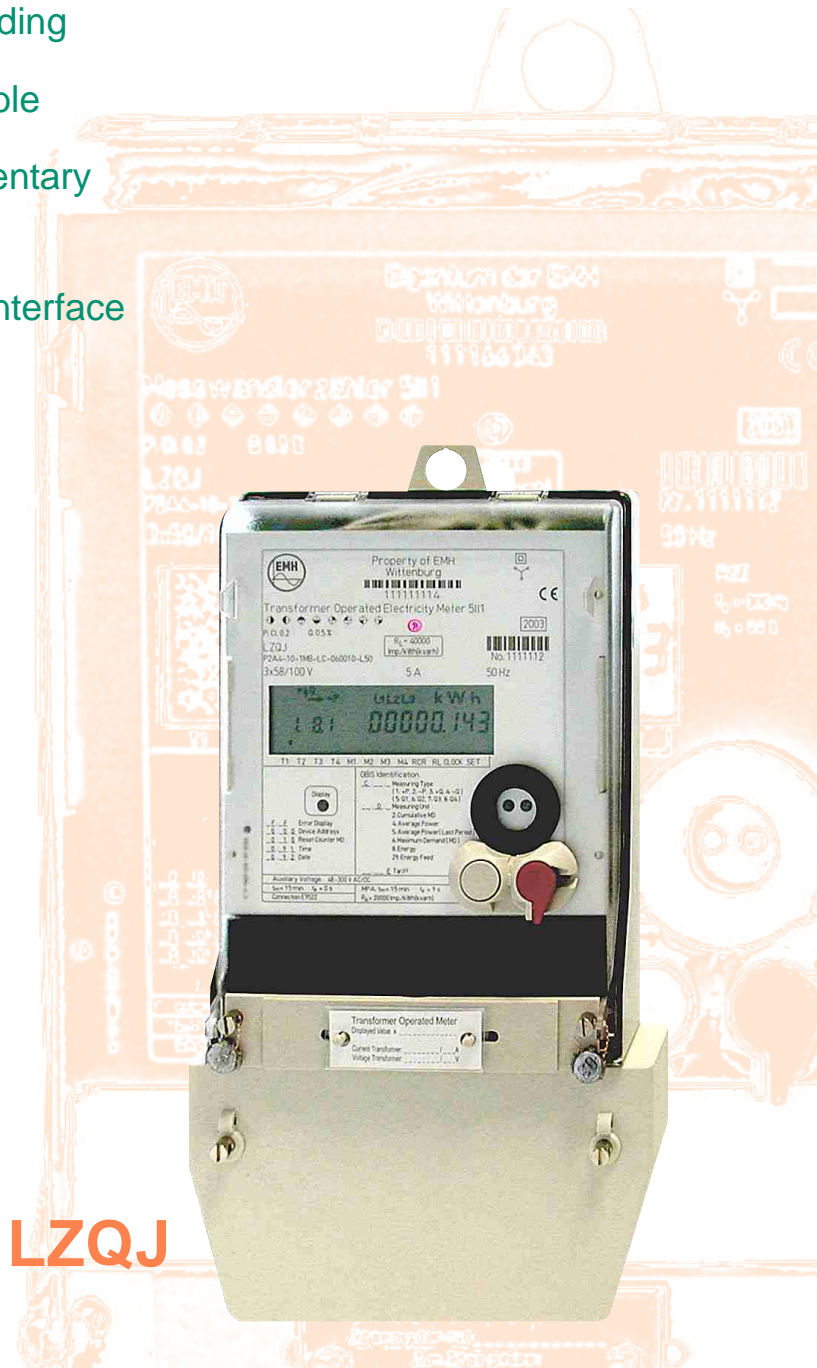


# Technical Specification



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



**LZQJ**

**Precision Meter 0.2S**  
**4-Quadrant-/Combi Meter**  
with Load Profile Memory

**EMH**  
Elektrizitätszähler  
GmbH & Co KG  
Südring 5  
D-19243 Wittenburg  
Tel. +49(0)388 52 - 645 - 0  
Fax +49(0)388 52 - 645 - 29

# Precision Meter 0.2S with Load Profile Memory



<b>Measuring Device</b>	<ul style="list-style-type: none"> <li>Voltage (-20%, +15%)</li> <li>Current</li> <li>Further voltages/currents</li> <li>Frequency</li> <li>Accuracy (standard)</li> <li>Accuracy (option)</li> <li>Meter constant (LED)</li> </ul>	4L: 3x58/100V ... 3x240/415V 3L: 3x100V ... 3x415V 1(6)A, 5A, 1A, 5(10)A, 5(20)A, 5(60)A, 10(100)A on request 45 .. 65Hz active energy CI 0.2S (IEC/DIN EN 62053-22) reactive energy CI 0.5% active energy CI 0.5S (IEC/DIN EN 62053-22) reactive energy 1% programmable
<b>Tariff Device</b>	<ul style="list-style-type: none"> <li>Energy measurement</li> <li>Maximum measurement</li> <li>Measurement period</li> <li>Load profile memory (configurable) (at <math>t_m=15\text{min}</math>)</li> <li>Tariff system</li> <li>Data retention time</li> </ul>	32 registers + 8 tariffless with max 15 historical values each 32 registers with max 15 historical values each 1, 5, 10, 15, 30, 60 minutes (configurable) 1 .. 32 channels, memory depth: approx. 317 days with 1 channel configurable by customer > 10 years
<b>Display</b>	<ul style="list-style-type: none"> <li>LC-Display</li> </ul>	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
<b>Tariff Switch, Real Time Clock</b>	<ul style="list-style-type: none"> <li>Adjustable via</li> <li>Accuracy</li> <li>Running reserve with SuperCap</li> <li>Running reserve with Li-Battery</li> </ul>	optical interface D0 or electrical interface within +/- 5ppm 150 h > 20 years
<b>Ripple Control Receiver</b>	<ul style="list-style-type: none"> <li>Adjustable via</li> <li>Protocols</li> <li>Frequency, operate voltage</li> <li>Outputs</li> </ul>	optical interface D0 or electrical interface all practicable adjustable 8 channels
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>Data exchange, configuration</li> </ul>	optical interface D0 acc. to IEC/DIN EN 62056-21 or DLMS, RS-232, RS-485 or CL0 (20mA-two-wire)
<b>Inputs</b>	<ul style="list-style-type: none"> <li>7 control inputs</li> </ul>	system voltage, potential free (optionally one of these as S0 input, not potential-free)
<b>Outputs</b>	<ul style="list-style-type: none"> <li>For the output of several switching states, e.g. energy impulses, measuring period, tariff states, special customer switches etc.</li> <li><b>Optical fibre interface</b> for the</li> </ul>	max 7 x S0 or MOSFET <b>or</b> 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 connection of an <b>Optical Fibre Separation Box</b>
<b>Power Supply</b> with external auxiliary voltage	<ul style="list-style-type: none"> <li>Long-range power supply</li> </ul>	48-300V AC/DC (alternatively a combined supply from auxiliary voltage and measuring voltage is possible)
<b>Mains Buffering</b>	<ul style="list-style-type: none"> <li>Switch-mode power supply</li> </ul>	> 500ms
<b>Power Consumption</b>	<ul style="list-style-type: none"> <li>Voltage path</li> <li>Current path</li> </ul>	< 2 VA / phase < 2.5 VA / phase (directly connected) < 0.5 VA / phase (transformer connected)
<b>Isolation Resistance</b>	<ul style="list-style-type: none"> <li>Alternating voltage</li> <li>Surge voltage</li> </ul>	4kV, 50Hz, 1min 8kV, Impuls 1,2/50ms
<b>Mechanical System</b>	<ul style="list-style-type: none"> <li>Dimensions</li> <li>Weight</li> <li>Class of protection</li> <li>Housing</li> </ul>	approx. 178 x 327 x 59.4 (B x H x T) mm 1.35 kg Class II appliance Polycarbonate
<b>Temperature Range</b>	<ul style="list-style-type: none"> <li>Operate / Limit</li> <li>Storage, Transport</li> </ul>	-25°C .. +55°C / -40°C .. +70°C -40°C .. +70°C
<b>Relative Humidity</b>	<ul style="list-style-type: none"> <li>Operating</li> </ul>	90% at 40°C, non-condensing