

## BPK.40 MASS PRO Three Phase Active-Reactive Electronic Electricity Meter



### GENERAL FEATURES

- MID (Measuring Instruments Directive) Certified
- Data storage without energy and non-volatile memory
- Keeps period data in its memory of at least 1 year
- More than 10 years of battery life and protection for date and time in case of energy absorption
- Consumption and time data can be read through optical port and LCD display without energy
- 8 Different time periods in a day, 4 different tariff types, 3 different day types
- LCD display showing amount of energy consumed according to tariff
- Demand measurement capacity in every 15 minutes
- Ability to show warnings on display in different situations such as clock corruption, low battery, terminal cover and top cover open, magnetic interference, communication warnings
- Automatic daylight save implementation (activation/deactivation through optical port)
- Instant voltage and current values for each phase; instant frequency and total active&reactive power values, terminal cover and top cover opening dates with OBIS codes display on LCD
- Voltage and current warnings are indicated on LCD
- Load profile recording at least for 180 days and at 15 minute intervals
- Programmable demand measurement period (15-30-60 minutes) and manual demand reset feature through communication port or demand reset button once in a month
- Long life and maintenance free operation



### TECHNICAL SPECIFICATIONS

Meter Type	3-Phase, 4-Wire Bidirectional	3-Phase, 4-Wire Unidirectional
Connection Type	Current Transformer	
Accuracy Class	Active Class C Reactive Class 2	Active Class B Reactive Class 2
Meter Constant	10000 imp/kWh - 10000 imp/kVArh ind. 10000 imp/kVArh kap.	
Nominal Voltage (Un)	3x230/400 V 3x57,7/100 V	
Operating Voltage Range	0,8Un-1,15Un	
Reference Frequency	50 Hz ±5	
Starting Current (Ist)	1 mA	2 mA
Minimum Current (Imin)	0,01 A	0,01 A
Transitional Current (Itr)	0,05 A	
Nominal Current (In)	1 A	
Maximum Current (Imax)	10 A	
Load Profile	21 Channels / 180 Days	
IP Rating	IP54 (Outside)	
Protective Class	Two (2)	
Humidity Ratio	Max. %95	
Operating Temperature	-40 °C, +70 °C (3K7)	
Storage Temperature	0°C, +30°C	
Mechanical Environment Class	M1	
Electromagnetic Environment Class	E2	
Voltage Circuit Power Consumption	< 2W, 10 VA	
Current Circuit Power Consumption	< 4 VA	
ESD Immunity	Contact: 8 kV; Air: 15 kV	
Impulse Voltage	6 kV	
LCD Display	6+3, Backlight	
Communication	Optical, RS485 300-19200 Baud (EN 62056-21)	
Battery Life	≥ 10 years / 4 years	
RTC Accuracy	< 0.5 sec/day (EN 62054-21)	
Standards	TS EN 50470-1, TS EN 50470-3, TS EN 62053-23	

### DIMENSIONS

