

BIALON PowerHouse

LON® Powerline SUBMETER with 10 A relay output



- LON® Powerline connection as per DIN EN 14908-3 or ISO/IEC 14908-3
- Transfer speed 5.4 kbps
- Accuracy class A (2%) as per DIN EN 50470-1, -3
- For measuring the following electrical characteristics:
 - Electrical energy W [kWh]
 - Active power P [W]
 - Reactive power Q [Var]
 - Apparent power S [VA]
 - Effective voltage value [V]
 - Effective current value [A]
 - Power factor (cos φ)
 - Grid frequency [Hz]
- Relay output 250 V AC @ 10 A (active power only)
- Supply voltage 90...260 V AC
- Installation in a recessed socket possible (among other options)

The Powerline SUBMETER **BIALON PowerHouse** is a digital A/C current meter for measuring the electrical energy of a consumer for installation in a recessed socket. In addition to measuring the electrical energy W, it also measures the electrical power (active power, reactive power, and apparent power), the effective current and voltage values, the power factor $\cos \varphi$ and the grid frequency with an accuracy class of A, (2%) as per DIN EN 50470-1 and -3.

The measured values are transferred as standard network variables (SNVTs) as per LONMARK® standard to a LON® Powerline network or to a central office.

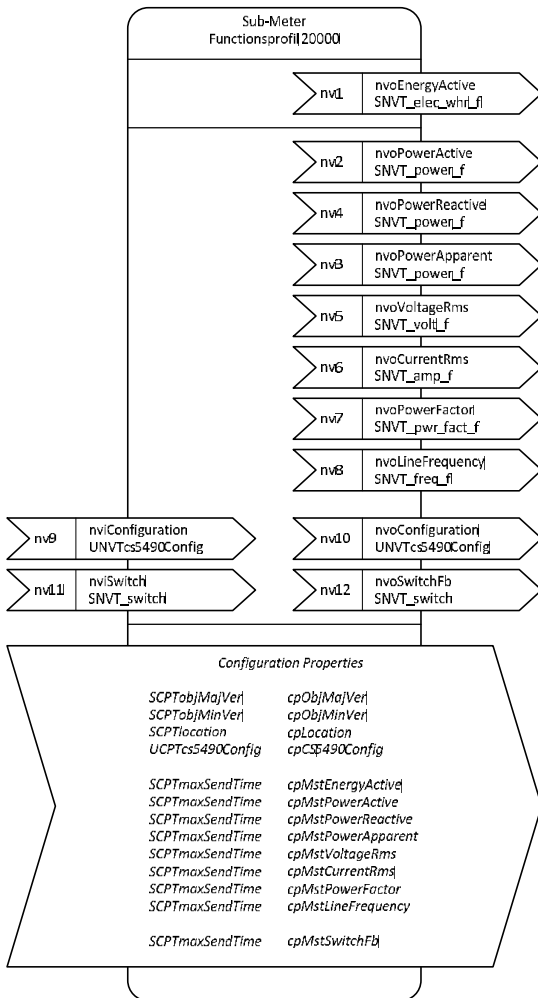
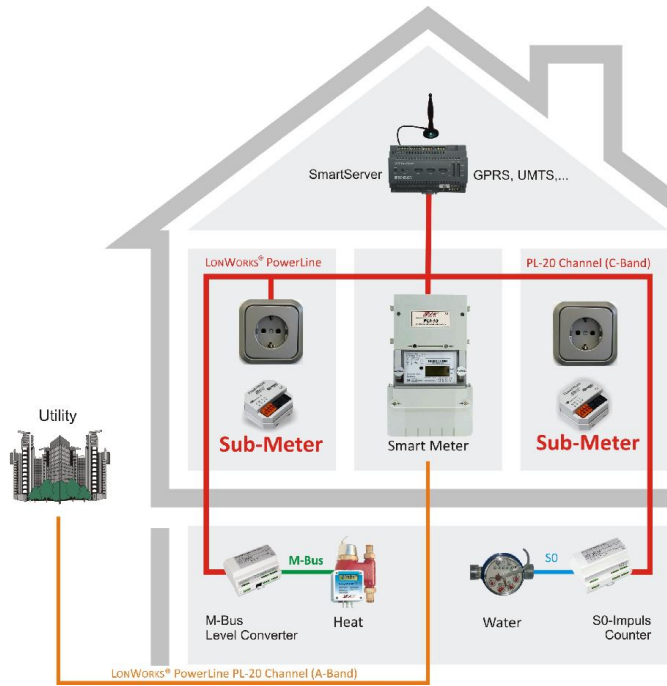
The SUBMETER also has a 10 A relay output (250 V AC @ 10 A effective load). When installing in a double-depth recessed socket, the electrical consumer connected to the socket can be measured and switched.

Order details

Description	Order number
BIALON PowerHouse	095260

Properties of LONWORKS® technology:

- Standardised, local field bus system (DIN EN 14908)
- Product interoperability of different manufacturers guaranteed by LONMARK®.
- Various transmission channels defined (free topology, Powerline, RF, IP, etc.)
- Communication is effected on the basis of standardised communication objects (LONMARK® -function profiles) by exchanging standard network variables (SNVTs)
- Powerful network operating system (LNS®) as the basis for various network management and configuration programs by various manufacturers.



Technical data

Supply voltage	90 V AC to 260 V AC
max. measuring current	$I_{max} = 10 \text{ A}$
Rated frequency (f)	50/60 Hz
Internal current draw	< 2 W
Actuation threshold	< 10 mA
Accuracy class	Class A (2%) as per DIN EN 50470-1 and -3
Relay output	250 V AC @ 10 A (active load (cos φ=1)) 250 V AC @ 3 A (inductive load (cos φ 0.4))
LON connection	LON Powerline as per Cenelec C-Band
Terminals	2 terminal pairs max. 2.5 mm ²
Operating temperature	0 ... 40 °C
Relative air humidity	0 ... 90 % (non-condensing)
Housing	For installation in a recessed socket (among other options)
Degree of protection	IP 20 as per DIN EN 60529
Dimensions (L x W x H)	50 x 50 x 30 mm