Eniscope Hybrid (2018)
Multi-channel 3 phase energy data recorder

Description:

Eniscope Hybrid is a multi-channel, three phase energy meter and sensing system combined with a processing facility designed to gather, summarise, store and transmit energy related information to cloud-based servers for presentation and analysis. The Eniscope Hybrid allows the user to monitor energy usage in real-time thereby helping to identify waste and eliminate costs…

Eniscope Hybrid combines 8 three-phase metering points and 2 pulse inputs to enable measurement and analysis of gas and water consumption.

The compact, plug and play system can be easily installed by an electrician, instantly providing real-time data on energy consumption patterns by individual piece of equipment, circuit, building or property Portfolio.

Eniscope Hybrid records minute-by-minute data, which can be displayed to building occupants, or included on websites, via a range of public displays.

Data can be viewed in real-time on any computer, or across a range of portable devices, from anywhere in the world. Historical data can be accessed and analysed, a resolution of up to one minute via the cloud based BEST Analytics system. Eniscope Hybrid has been engineered to allow continuous, remote improvements and upgrades via the cloud, making this the world's most durable and future proof solution to energy monitoring and efficiency.

Technical Data:

Supply voltage:	100-230V AC Nominal
Power requirements:	Less than 20W
Connectors:	External easy fit plug-in sockets. CT's via RJ12 plug and play connectors.
Operating temperature:	10 – 40 degrees centigrade.
Altitude:	Maximum 2000M above sea level.
Enclosure:	Bespoke aluminium powder coated extrusion suitable for DIN rail mounting with acrylic faceplate.
Display technology:	Multi functional display via Analytics cloud based server.
LED's	On board LED display showing network connectivity.
Dimensions in mm:	L 236 x H 144 x D 60.
Shipping Weight:	0.80 Kg
Storage & Transport:	Storage temperature 0 - 50°C Relative humidity 0 - 80%, non condensing
MTBF:	Predicted survival rate of 89.5% after 10 years.
Operational Relative Humidity:	0 - 80%, non condensing
IP Rating:	IP20
Environmental:	Complies with, RoHS and WEEE.

Measurement

Nominal full scale voltage:	346V line to neutral, 600V line to line.
Withstand voltage	1000V AC line to neutral, line to line.
Input impedance:	2MΩ
Frequency:	50/60Hz
Pick up voltage:	0V
Voltage acuracy:	Better than 1%
CT inputs (per channel)	333mV, at rated CT current
Metering range:	30 amp – 500 amp as standard, higher currents available on request.
Withstand current:	6 times nominal CT current.
Pick up current:	0 amps
Accuracy:	Better than 1%
Pulse inputs	2 pulse input channels - Only non-powered circuits should be connected. Typical input would be from a reed-relay switch (pulse output) of a water meter conforming to IEC62053-31 or DIN43864 (S0).
Modbus:	1 input to provide for separate RS485 connections to control and monitor other meters or load-side products.
Temperature sensing:	This input allows for the connection of 1-wire © temperature sensors.
Warranty:	BEST guarantees to the purchaser that this product is free of defects in material and workmanship for 24 months, commencing from the date of purchase. Eniscope Hybrid is warranted only in normal use. It does not cover failures caused by improper installation, abuse, misuse, modification or alteration of electrical circuitry or physical construction and events beyond our control.
EMC Directive:	Eniscope Hybrid conforms to the requirements of the standards in respect of the European EMC directive, EN61326-1:2013. Electrical equipment for measurement, control and laboratory use.
Safety requirements:	Eniscope Hybrid conforms to the standards in respect of the low voltage directive, 2006/95/EC. IEC61010-1, 3rd Edition, EN61010-1, 3rd Edition. Electrical equipment for measurement, control and laboratory use.