



Overview

For any Energy Management System to be effective, the consumption of energy needs to be monitored. However, in order to reduce and manage energy, this data also needs to be visualized and analyzed, in order to make corrective action. The NBW-8100 is an extremely cost effective solution in providing the means for more detailed energy consumption analysis.

The small sized NBW-8100 can capture all relevant energy data on up to 3 three-phase or 9 single phase circuits. Best used with split core CTs for the accuracy and easy installation. This is the ideal device for creating cost-effective and precise energy monitoring and control and sub-metering solutions.

The NBW-8100 can be used with any 333mV Current Transformers (CT). A whole range of CTs for different current ranges can be purchased together with the NBW-8100 (see our CT specifications for more details)

Features

- True RMS measurements
- Simultaneous sampling of volts & amps
- EIA RS485 interface with Modbus RTU communication protocol
- STAR (Wye)/ DELTA Programmable
- Universal Auxiliary (80 - 300V AC / DC) supply
- PT & CT ratio programmable including secondary
- "OLD" Register for storing Cleared Energy
- 6 digits 1 Row display with Auto scaling & Auto Scrolling
- Auto-scaling of kilo, mega, giga & decimal point
- 3 channel current and single channel voltage input
- User configurable (Editable) password
- IEC compliant, ETL/UL approved
- Compact size and Weight
- Universal Voltage Input (80 - 550 VAC)
- Din Rail mounting

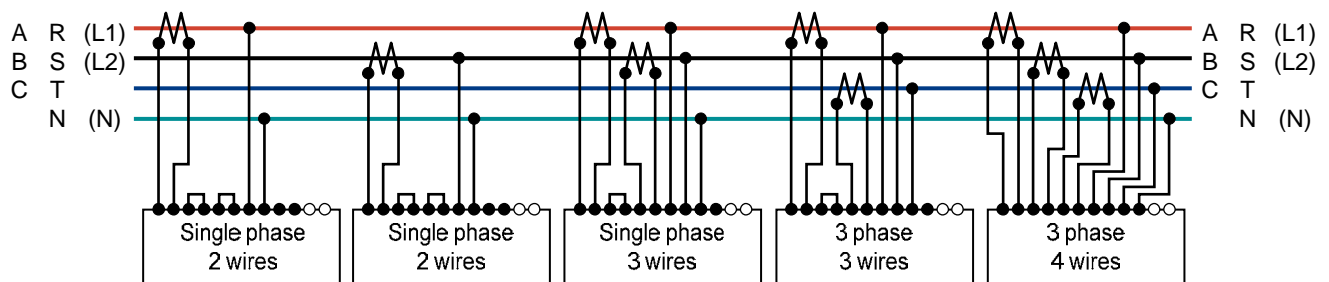
Input Specifications

Loads	Single phase 2 wires Single phase 3 wires 3 phase 3 wires 3 phase 4 wires
Accuracy	Class 1 (1%), Class 0.5 on request
Electrical Input	80-550VAC (Up to 600VAC on request)
CT Options	5 - 1500A CTs available
Measures	V, A, W, WH, Freq, PF
Withstand	2000VAC for 1 minute

Specifications

Dimensions	96 X 96 X 68 mm (3.8 X 3.8 X 2.7")
Holes for mounting	92 X 92 mm (3.622 X 3.622")
Power supply	80-300 VAC (able to share Power Transformer Circuit)
Power Consumption	0.2VA/phase
Communication	Modbus RTU

Connection diagram



CT:ELSC Series



ELSC 0750	5 - 150 Amps
ELSC 1250	10 - 600 Amps
ELSC 2000	600 - 1500 Amps