Installation work must be carried out by qualified personnel.

Setting the unit.
- Set the “Hyst. / Mode” selector to the required position depending whether under or over monitoring is required. Select either a suitable hysteresis setting of 2% or 10% or choose Latch if required.
- Set the “Trip Level %” to the required position (depending on monitored input voltage to be monitored).
- Select the “Delay” then remains lit. Red LED extinguishes / relay de-energises.

Applying power.
- Apply power and the green LED will illuminate.
- If under voltage mode is selected:
  - Relay energises / red LED illuminate if the voltage is above the set “Trip Level”. If the voltage falls below the “Trip Level”, yellow LED flashes for the set “Delay” then remains lit. Red LED extinguishes / relay de-energises.
- If over voltage mode is selected:
  - Relay energises / red LED illuminate if the voltage is below the set “Trip Level”. If the voltage rises above the “Trip Level”, yellow LED flashes for the set “Delay” then remains lit. Red LED extinguishes / relay de-energises.

**NEW* 17.5mm DIN rail housing
- Microprocessor based
- True R.M.S. monitoring
- 7 Selectable monitoring ranges (0.1 – 20V AC/DC)
- Selectable Under or Over Voltage monitoring
- Adjustable trip level and time delay
- Isolated Auxiliary supply (24 – 230V AC/DC)
- 1 x SPDT relay output 8A
- Green LED indication for supply status
- Yellow LED indication for alarm status
- Red LED indication for relay status

**TECHNICAL SPECIFICATION**
- Auxiliary supply voltage U (A1, A2): 24 – 230V AC/DC (110V AC also available)
- Frequency range: 48 – 60Hz (AC supplies)
- Supply variation: ±15% / -10%
- Overvoltage category: III (IEC 60664-1)
- Rated impulse withstand voltage: 4kV (1.2/50µS) IEC 60664
- Power consumption (max.): 24V
  - AC: 0.84 VA
  - DC: 0.6 W
- Monitoring mode: Under or Over voltage (selectable)
- Hysteresis: 2 or 10% (selectable)
- Latch: Enabled using Mode selector switch
- Monitoring ranges: 0.1 – 1V, 0.2 – 2V, 0.5 – 5V, 1 – 10V, 0.2 – 20V
- Trip level: 10 – 100% of selected monitoring range
- Time delay (t): 0.1 – 30S (from fault occurring to relay de-energising)
- Power supply status LED
- Reset time: 1 second (fixed)
- Alarm status indication: Yellow LED
- Relay status indication: Red LED
- Ambient temp: -20 to +60°C
- Relative humidity: <95%
- Output: 1 SPDT relay
  - Output rating: AC 125V 8A (2000VA)
- Overload: TBC
- Overvoltage category: TBC
- Rated impulse withstand voltage: TBC
- Power on indication: Green LED
- Selectable monitoring range (A1, A2): 0.1 – 1V
- Set the “Trip Level %” (A1, A2) to suit the selected monitoring range and delay to tripping period.
- Frequency: DC, 48 – 50Hz
- Maximum input rating: 1.2 x 20V
- Monitoring input (B1, B2): 0.1 to 20V AC/DC
- Rated impulse withstand voltage: 4kV (1.2/50µS) IEC 60664
- Overvoltage category: TBC
- Rated impulse withstand voltage: TBC
- Output range: 48V DC
  - 250V 8A (2000VA)
  - 250V 5A (no), 3A (nc)
  - 230V 20A (AC100 – 125V)
- Housing: Orange flame retardant UL94
- Weight: 83g
- Mounting option: On or direct surface mounting via 2 x M3.5 or 4BA screws
- Approvals: CE and RoHS Compliant.
- Emissions: EN 61000-6-4
- For USA sales, support, service and deliveries:
  - PowerTek US Inc. 7 Third Street, Holbrook, NY 11741 USA Tel: +1 631 615 6279 Fax: +1 973 273 5893 Email: info@powertekuk.com www.powertekuk.com

**FUNCTION DIAGRAMS**
- Under Voltage Monitoring (with and without Latch enabled)
- Over Voltage Monitoring (with and without Latch enabled)

**INSTALLATION AND SETTING**
- Before installation, isolate the supply.
- Connect the auxiliary and monitored inputs as required.

**END USER GUARDIAN**
- By using this equipment, the end user accepts and agrees to all the above terms and conditions.

**DIMENSIONS**
- Dimensions: to DIN 43880 W. 17.5mm
- Terminal conductor size: 2 x 2.5mm² / solid or stranded
- All dimensions are in mm.