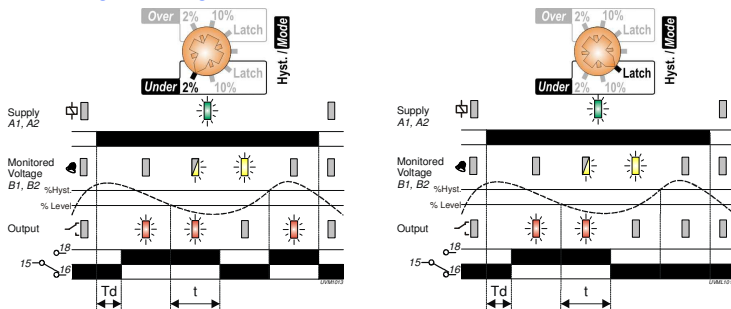




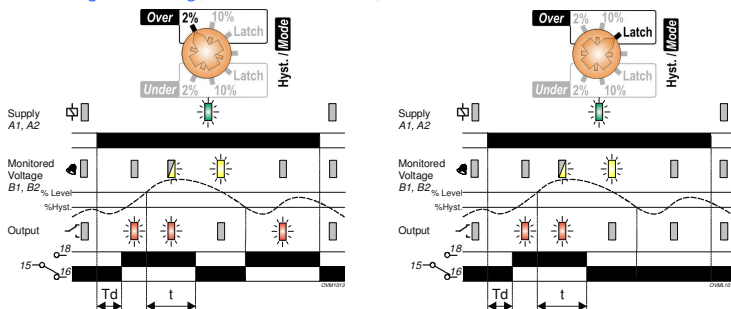
- *NEW* 17.5mm DIN rail housing
- Microprocessor based
- True R.M.S. monitoring
- 7 Selectable monitoring ranges (0.1 – 20V AC/DC)
- Selectable Under or Over Voltage monitoring
- Selectable hysteresis or latch option
- Adjustable trip level and time delay
- Isolated Auxiliary supply (24 – 230V AC/DC)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

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.



Installation work must be carried out by qualified personnel.

Setting the unit.

- Set the "Hyst. / Mode" selector ⑦ 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 "Range" ⑥ to the required position (depending on monitored input voltage to be monitored).
- Set the "Trip Level %" ⑤ and "Delay" ④ to suit the selected monitoring range and delay to tripping period.

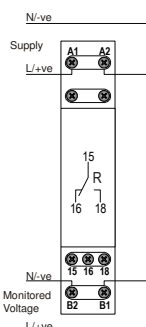
Applying power.

- Apply power and the green LED ① will illuminate.
- If Under voltage mode is selected:**
 - Relay energises / red LED ③ illuminate if the voltage is above the set "Trip Level". If the voltage falls below the "Trip Level", yellow LED ② flashes for the set "Delay" then remains lit. Red LED extinguishes / relay de-energises.
- If Over voltage mode is selected:**
 - Relay energises / red LED ③ illuminate if the voltage is below the set "Trip Level". If the voltage rises above the "Trip Level", yellow LED ② flashes for the set "Delay" then remains lit. Red LED extinguishes / relay de-energises.

TECHNICAL SPECIFICATION

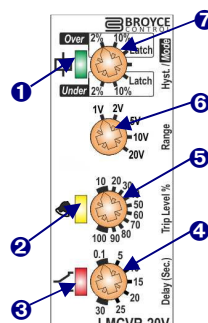
Auxiliary supply voltage U (A1, A2):	24 – 230V AC/DC ¹ (12 – 60V AC/ DC also available)			
Frequency range:	48 - 63Hz (AC supplies)			
Supply variation:	+15%/ - 10%			
Overvoltage category:	III (IEC 60664)			
Rated impulse withstand voltage:	4kV (1.2/50μS) IEC 60664			
Power consumption (max.):	24V	48V	115V	230V
	AC: 0.84 VA	0.82 VA	1.1 VA	1.4 VA
	DC: 0.6 W	0.47 W	0.46 W	0.53 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, 2 – 20V			
Trip level:	10 – 100% of selected monitoring range			
Time delay (t):	0.1 – 30S (from fault occurring to relay de-energising)			
Power up delay (Td):	1 second (fixed)			
Reset time:	100mS			
Accuracy:	± 1% of maximum full scale			
Adjustment accuracy:	< 5% of maximum full scale			
Repeat accuracy:	± 0.5% at constant conditions			
Drift with temperature:	± 0.05% / °C			
Drift with voltage:	± 0.2% / V			
Monitoring input (B1, B2):	0.1 to 20V AC/DC			
Frequency:	DC, 48 – 500Hz			
Maximum input rating:	1.2 x 20V			
Overload:	TBC			
Overvoltage category:	TBC			
Rated impulse withstand voltage:	TBC			
Power on indication:	Green LED			
Alarm status indication:	Yellow LED			
Relay status indication:	Red LED			
Ambient temp:	-20 to +60°C			
Relative humidity:	+95%			
Output (15, 16, 18):	SPDT relay			
Output rating:	AC1	250V 8A (2000VA)		
	AC15	250V 5A (no), 3A (nc)		
	DC1	25V 8A (200W)		
Electrical life:	≥ 150,000 ops at rated load			
Dielectric voltage:	2kV AC (rms) IEC 60947-1			
Rated impulse withstand voltage:	4kV (1.2/50μS) IEC 60664			
Housing:	Orange flame retardant UL94			
Weight:	63g			
Mounting option:	On to 35mm symmetric DIN rail to BS EN 60715 or direct surface mounting via 2 x M3.5 or 4BA screws using the black clips provided on the rear of the unit			
Terminal conductor size	≤ 2 x 2.5mm ² solid or stranded			
Approvals:	CE and RoHS Compliant. EMC: Immunity: EN 61000-6-2 (EN 61000-4-3 10V/m 80MHz - 2.7GHz) Emissions: EN 61000-6-4			

CONNECTION DIAGRAM



SETTING DETAILS

- Power supply status (Green) LED
- Alarm status (Yellow) LED
- Relay output status (Red) LED
- Time delay adjustment
- Trip level adjustment
- Monitoring range selector
- Hysteresis / Mode selector



DIMENSIONS

