

SSU precision voltage monitoring relays

Product information SSU



WHD: 38x72x92 mm

With these devices, Comat has set new, trendsetting standards in voltage monitoring. The high accuracy of measurement and functional reliability also permits unconventional applications and increases the operational safety of your system. Let us know your problem - we can find a solution together.

Applications

The SSU Series was developed in close cooperation with the electricity supply companies in order to monitor emergency power supplies from batteries. It has been found in practice that chargers with their own monitoring systems are not in themselves sufficient to guarantee the necessary level of safety for operational readiness at any time in "vital" systems. This problem is also encountered in supplies for EDP and transmission systems, hospital and civil defence equipment, etc. By monitoring the correct voltage for maintaining charging and low discharge, there are special advantages as a result of the long life of the batteries. In other applications, for example, currents of motors in traction units are recorded with high accuracy. Operational and measurement voltage ranges can be set up and combined to meet particular requirements.

Characteristics

It is therefore clear that these units meet the highest requirements for operational safety and service life. Operation is extremely simple and is performed using only 3 keys. The concept is based on a microcomputer solution, the user parameters being stored permanently without batteries and protected from power failure (EEPROM). Depending on the type, monitoring thresholds can be programmed in 20mV or 100mV steps and the delay times for alarm on/off can be programmed in 0.1s steps up to a maximum of 600s. The SSU performs a continuous self-test. An alarm is always triggered off in the event of a fault or error. Values and operating status are displayed on an LED.

A changeover contact for 5A, 250V is available as an output. For diagnostic purposes, it is possible to simulate the alarm state and to call the self-test. A second measuring input (for example for temperature) and a second electronic output are available as options.

The SSU has a housing with an 11-pole IEC 67 plug and is also suitable for front frame mounting.

Example	Type	Nominal voltage	Measuring voltage range
<u>Voltage monitoring</u>			
In the range 1-270V DC for	SSU11	110-220V DC	50-270V DC
• chargers		60-125V DC	40-150V DC
• power supplies		24- 48V DC	10-75V DC
• battery emergency power supplies		12-15V DC	1- 35V DC
<u>Current monitoring</u>			
In the range of a few 1000A for	SSU23	60-125V DC	1...35V DC
• motors	SSU79	60-127V UC	10...200mV AC/DC TRMS
• traction units			
• electroplating systems			
<u>Indication and monitoring of measured values</u>			
In the range 0 (4)...20mA for	SSU79	60-127V UC	10...200mV AC/DC TRMS
• pressure			
• temperature			
• current			