



Monitoring Unit



- Wide measuring and supply voltage range
- Easy programming via RS232-interface with PC
- Wide range of monitoring and signalling functions
- Temperature compensation of the charge voltage for PSR- and PSS-rectifiers
- Alphanumeric LCD display for measuring values and system parameters
- CAN-bus interface
- Remote control via modem interface (optional)

The monitoring, controlling and signalling unit MU500C is applicable especially to power supply systems with combined battery backup. Together with CAN-bus connected PSR- and PSS-rectifiers all main system parameters can be controlled and indicated. Battery monitoring, boost charge controlling, low battery voltage protection (contactor controlling), analogue measuring inputs for two DC voltages and two DC currents, with temperature compensation of the charge voltage and 3 digital inputs are examples of the extensive standard functions.

In order to monitor and control PSR- and PSS-rectifier modules the MU500C uses a CAN-bus interface. No money and time wasting in the wiring of signalling contacts within the power supply system and between single modules anymore. The output measuring values and the operation state of all CAN-bus connected rectifiers are shown in the alphanumeric display.

The digital inputs of the unit can be used for monitoring of internal or external signal contacts (for example fuse monitoring). Different relay outputs are available for remote signalling of single or general faults. In addition to internal text messages various front side LED's indicate the state of main system parameters. The MU500C is designed especially for use in low cost telecom applications.

TYPE LISTING	
Type	MU500LC
Code-Nr.	C24-
Category	Microprocessor based controlling, monitoring and signalling unit

POWER SUPPLY / MEASURING RANGE	
Input voltage	35-60 V
Measuring voltage	35-60 V
Input power consumption	appr. 3 W

ANALOGUE MEASURING INPUTS	
Voltage inputs	2 accuracy 1%
Current inputs	2 (1 x ± 60 mV for battery charge / discharge current measurement; 2 x + 60 mV)
Temperature input	1 (for connection with temperature sensor LM335)

DIGITAL MEASURING INPUTS	
Signalling inputs	3 (digital inputs)

STANDARD FEATURES	
Alphanumeric display	LCD, 2x16 characters, rear illuminated
LED indications	operating, $V > V_{min}$, $V > V_{max}$, Fuse tripped, Operation, Mains O.K., Battery,
Relay outputs	2 relay contacts,
Communication	CAN-bus interface for communication with PSS/PSR-rectifier modules,
Functions	boost charge controlling, battery low protection, battery midpoint voltage monitoring, isolation fault monitoring, charging current limitation
Microprocessor controlling	programmable monitoring functions with history function, device parameters via front keys and alphanumeric display
Languages	English

ENVIRONMENT	
Ambient temperature	Operation: 0°C to +40°C Storage: -30°C to +50°C
Climatic conditions	IEC 721-3-3 class 3K3/3Z1/3B1/3C2/3S2/3M2
Humidity class	F
Altitude	≤ 1000 m a.s.l., extension possible
Audible noise	< 30 dB (A) in 1 m distance

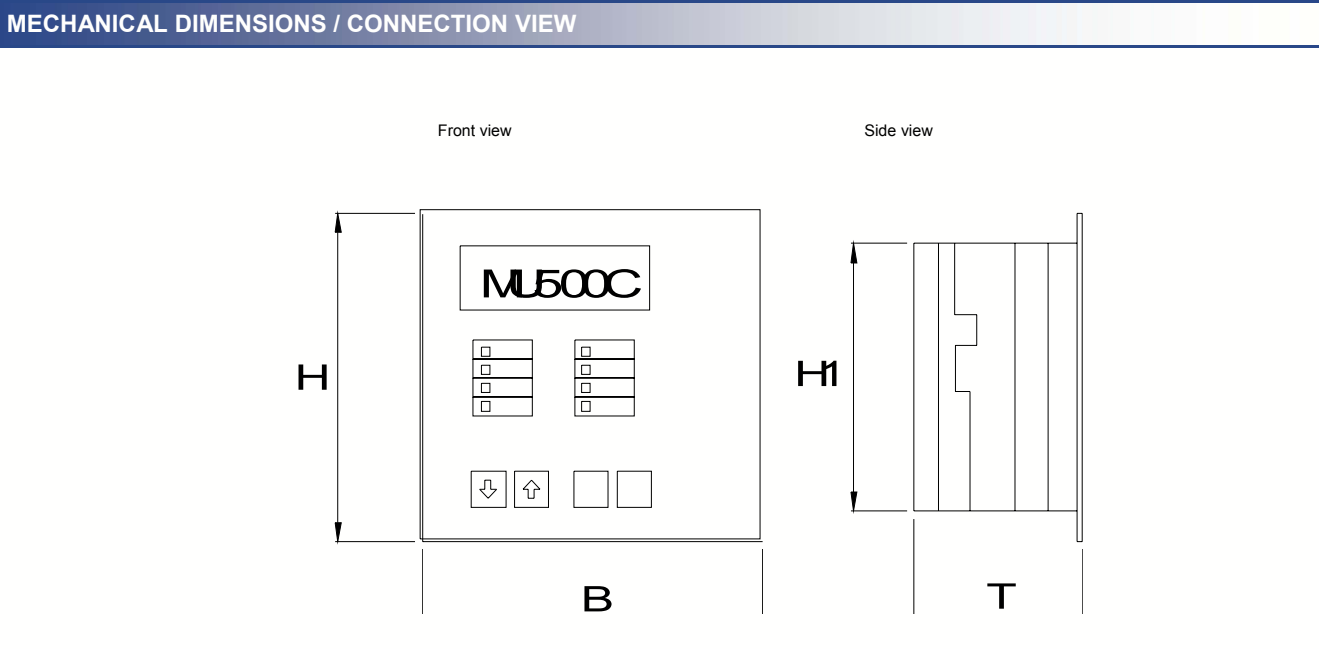
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MECHANICAL CONSTRUCTION	
Construction	built-in module for front panel mounting, rear side connectors
Dimensions W / H / D (mm) H1	142 / 129 / 40 110
Weight	appr. 0,8 kg
Protection class	IP20 (mech.); 1 acc. to EN 60950 (electr.)
Surface	front panel RAL 7032

COMPLIANCES	
Certification	CE-mark
Safety	EN 60950; VDE 0100 part 410; VDE 0110, EN 50178, EN 60146
EMC	EN 55022 class „B“, EN 61000-4 part 2-5

Options:

- Temperature sensor LM335 with 2 m cable and cable shoe



Additional Information

Full information, drawings, manuals and application notes and advice to any of the wide range of CP Kontakt AB's products are available on request.

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