

Motor Controllers DMPUC-HMI Operator Interface Motor Protection Unit



- Programmable operator interface
- Displays the instantaneous variables from DMPU
- Alarm warning through LED indicator and displayed message
- Controls the virtual digital inputs of DMPU
- Four programmable keys
- Freely configurable pages
- 2 lines LCD (2x8 DGT)
- Modbus RTU communication port

Product Description

DMPUC-HMI is freely programmable operator interface to show instantaneous values (currents, voltages, harmonic distortions, temperatures, etc.) measured by DMPU, display the alarm situations with customized messages and start-stop the motor. Modbus RTU protocol is available for device configuration by PC and communication with DMPU main module (through two RS485 ports). The whole programming is performed via PC software (DMPU-PSHMI). The housing is for panel mounting with IP65 protection degree (front).

Ordering Key

DMPUC-HMI

Model _____
Type _____

Communication Specification

RS485 port			
Numbers of ports	2, COM0 and COM2.	Connection	2-wires
Type	Bidirectional (static and dynamic variables).	Address	Selectable by DMPU-PSHMI software.
Functions		Protocol	Modbus RTU.
COM0 port	For DMPUC-HMI configuration download	Factory-defined data format	Data bits "8", parity "none", stop bit "1".
COM2 port	For communication with DMPU main module: modifies digital virtual inputs and monitors the measured variables and virtual alarms.	Speed	Fixed: 19.2kbps. Default: 9.6kbps. Selectable by software: 9.6kbps, 19.2kbps, 38.4kbps.
		COM0 port	
		COM2 port	

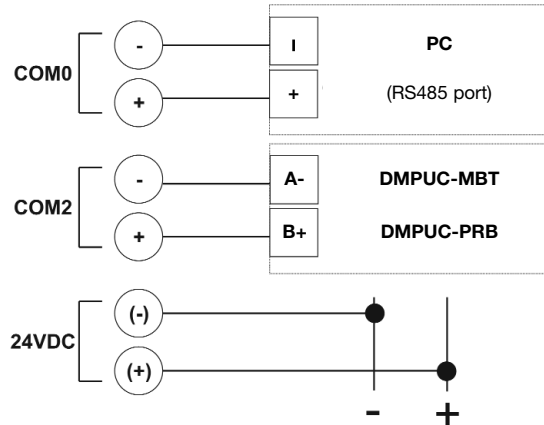
Power Supply Specification

Power supply	24VDC ±20%.
Power consumption	1W.

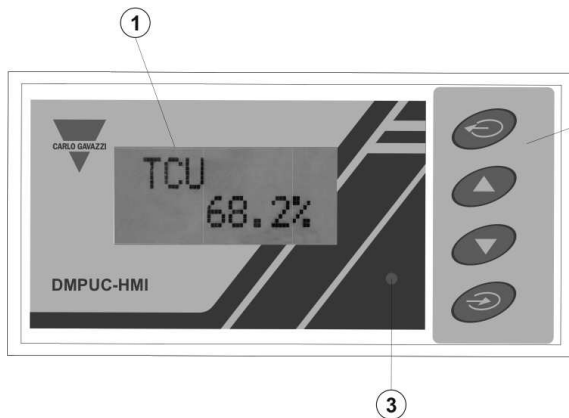
Connection

Terminals connection	Screw-type, 6 x 1.5 mm ² terminal blocks.
Screw tightening torque	0.4 Nm / 0.8 Nm (min./max.)

Wiring Diagrams



Front Panel Description



1. **Display:**
2 lines LCD (2x8 DGT); displays the pages with text, external variables values and alarm messages.
2. **Key-pad:**
Four programmable keys.
3. **Alarm status LED on warning**

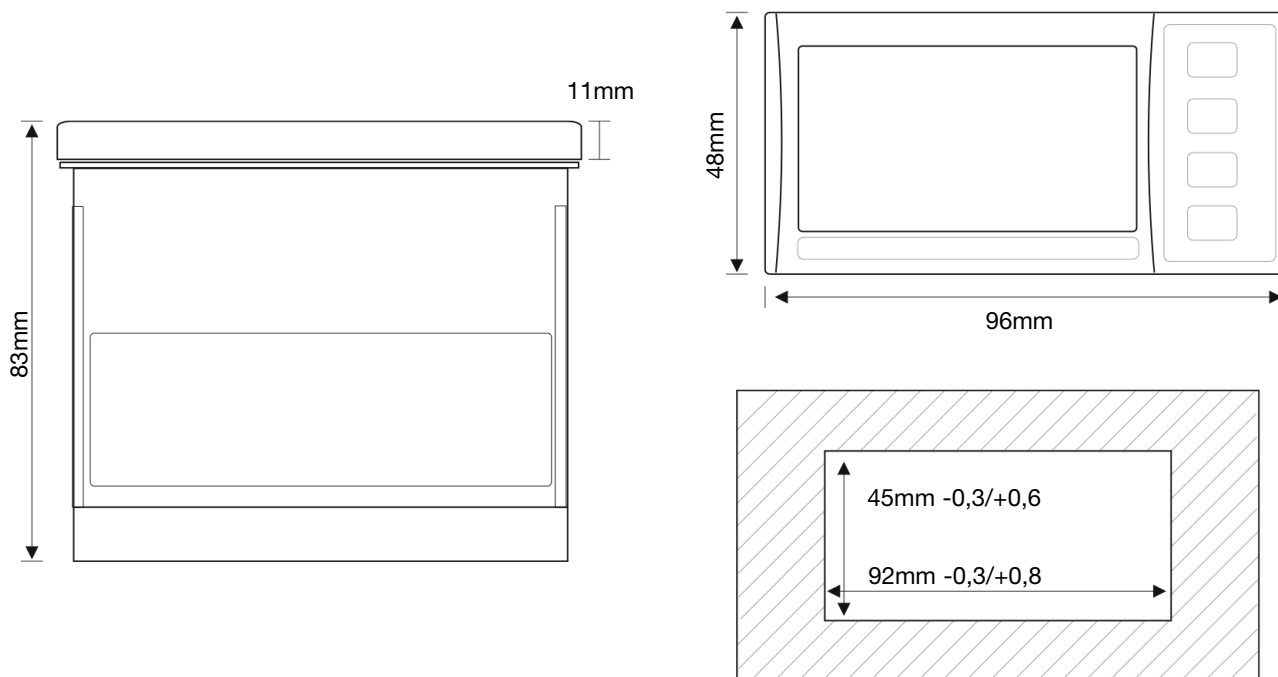
General Specifications

Operating temperature	0°C to +60 °C (R.H. from 0 to 90% non-condensing @ 40°C).	Safety standards	IEC60664, IEC61010-1 EN60664, EN61010-1
Storage temperature	-10°C to +70 °C (R.H. from 0 to 90% non-condensing @ 40°C).	Approvals	cUL listed
Installation category	Cat. III (IEC60664, EN60664)	Marking	CE
EMC	According to EN61000-6-2, EN61000-6-3. 15kV air discharge. Test with current: 10V/m from 80 to 2000MHz; 1V/m up to 2.7MHz.	Housing	Dimensions (WxHxD) Material
Electrostatic discharges		Mounting	96 x 48 x 88.5 mm ² ABS, self-extinguishing: UL 94 V-0. Front panel.
Immunity to irradiated		Protection degree	Front: IP65 Connections: IP20
Immunity to conducted disturbances	10V from 150kHz to 80MHz.	Weight	Approx. 195g
Surge	On DC power supply 2kV; on signal lines 1kV.		
Radio frequency suppression	According to CISPR 22, B class.		

Operator Interface Functions

Displayed pages	Freely configurable pages with text (editable by user) and external variables values.	Alarms	Up to 32 alarms are available; these alarms are linked to DMPUC main module virtual alarms. Every alarm can be displayed or ignored by DMPUC-HMI.
Front panel keys	Four programmable keys: to change the displayed page and control the virtual inputs of DMPUC main module. (Take care, if profibus communication on DMPUC main module is performed, not control the virtual inputs through DMPUC-HMI).	External variables	All variables from DMPUC main module can be displayed and modified. INT16, UINT16, INT32, UNIT32, IEE754 SP, ASCII. Cycling reading, acyclic reading, cycling writing, variable scaling.
		Data format	
		Functions	

Dimensions



Max. allowed panel depth: 8mm

Accessories

Code	Description
DMPUC-PSHMI	DMPUC-HMI programming software (included with DMPUC-CPC or downloadable from the web).