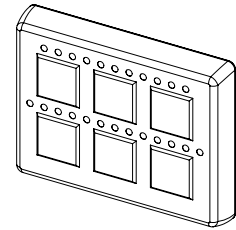


- Digital mobile electronics keypad CL-609
- Robust construction with plug-in connection for mobile applications
- Protection class IP 67
- Multi-functional pin assignment, 4 I/Os
- CAN connection
- Freely programmable


**DESCRIPTION**

Microcontroller based keypad with LED displays and multifunctional inputs/outputs of the PME devices family (Programmable Mobile Electronics). Delivered in a robust and compact plastic housing with a practically wear-free keypad, it is designed for the hard use in working devices and is used for the operation and for the display of machine functions.

**FUNCTION**

The control can be used and programmed as a stand alone unit, or as part of a distributed, decentralised system architecture. The variably usable inputs and outputs enable reading and controlling sensors and actuators of all kinds. The free programmability enables maximum flexibility for the adaptation to any desired machine function.

**APPLICATION**

The CL-609 keypad can significantly reduce vehicle dashboard wiring, and can be programmed with a dimming function. Customer-specific requirements can easily be implemented.

**CONTENT**

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**TYPE CODE**

CL-609-102-10-WAG-00	Master Keypad
CL-609-102-20-WAG-00	Client Keypad

**GENERAL SPECIFICATIONS**

Execution	Sealed construction
Keypad	Durability: > 1 million key presses Customized key labelling possible
LED Indicators	Dimmable LED indicators and backlit icons (via CAN or Analog input)
Dimensions	93 x 71 x 32 mm (see Dimensions)
Mounting	Front panel mounting (2 x M5 screws)
Weight	100 g
Device receptacle	Deutsch DT04-4P pin header
Mating connector	Deutsch DT06-4SA + DT06-4SB

Working temperature -40...+70°C

**Note** Mating connector not part of the delivery

**ELECTRICAL SPECIFICATIONS**

Protection Class	IP 67
Supply Voltage	8...32 VDC
No-load current	22 mA at 13.8 V, 17 mA at 28 V

**Analogue inputs**

Number of inputs	up to 1
Input voltage range	0...35 V
Input resistance	78.1 kOhm
Resolution	12 bit

**Digital inputs**

Number of inputs	up to 2
STB Switch to battery input	
Input resistance	1.4 kOhm
Switching threshold	positive >6.5V, negative <3.5 V
STG Switch To Ground input	
Pull-up resistance	560 Ohm to internal 5 V
Switching threshold	positive >3.25 V, negative <1.75 V

**Digital outputs**

Number of outputs	up to 4
Protection	Short to GND Short to Battery
Maximum current	-0.75 A (individual)
Type	Low-side-switch

**DOUT Digital Outputs**

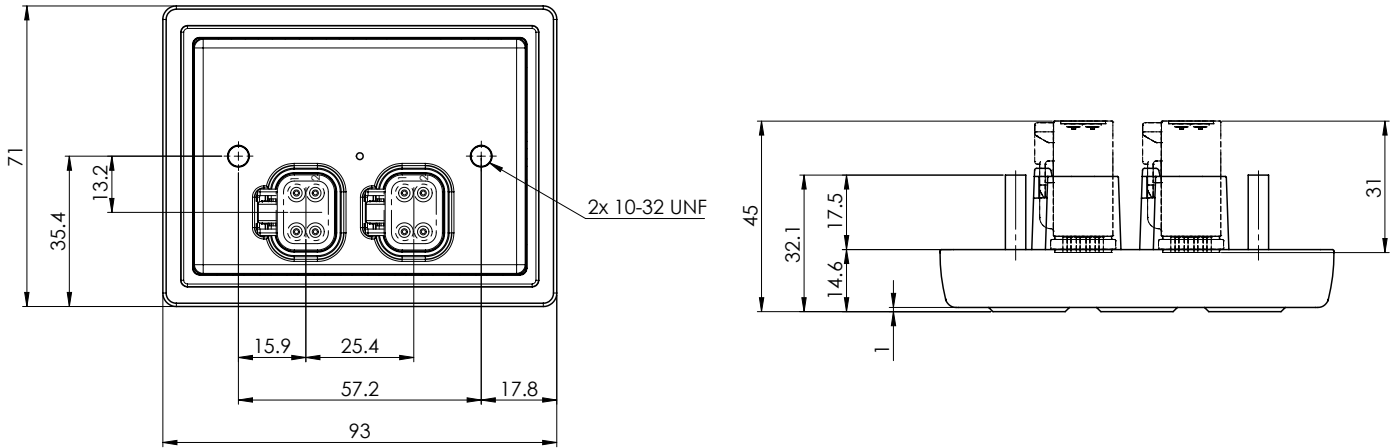
PWM Pulse Width Modulation Outputs

CAN 40 kbit/s to 500 kbit/s

**Software**

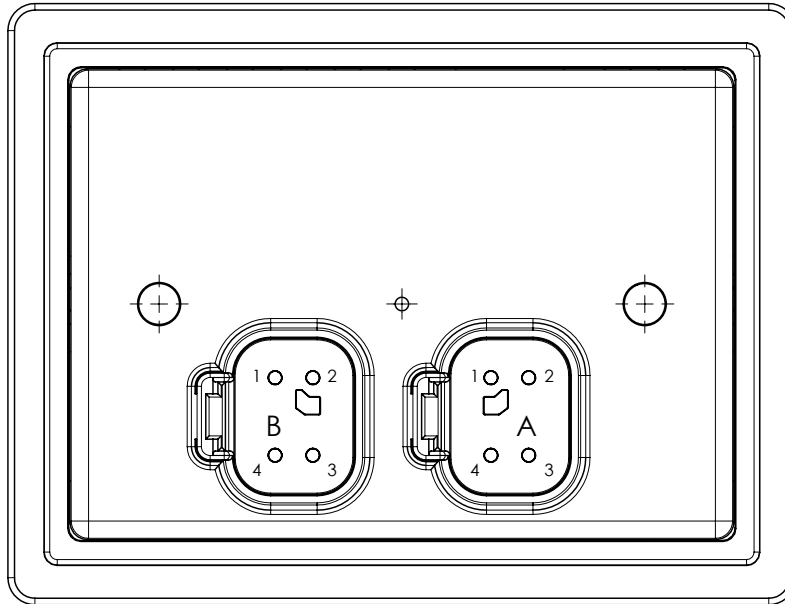
Apart from the programming tools, a software for diagnostics and error eliminating for the commissioning of the system is available.

**DIMENSIONS**



**ACCESSORIES**

Mating connector	DT06-4S (2 pcs)
Wedge lock	Deutsch W4SA and W4SB
Crimp socket AWG 16-20, 0.5-1.5 mm <sup>2</sup>	Deutsch 0462-201-16141 (max. 8 pcs)
or crimp socket AWG 14, max. 2mm <sup>2</sup>	Deutsch 0462-209-16141 (max. 8 pcs)
Sealing plug	Deutsch 114017 (max. 8 pcs)
or snapping sealing plug	Deutsch 0413-217-1605
Orchestra Software Suite Art. no. 740.1000	Project management software Ladder-Logic and C-Code Display GUI Programming incl. Conductor Software
Conductor Software Art. no. 740.1001	Standalone diagnostics and set-up tool
NXP (Freescale) CodeWarrior 3rd party tool	C-Code Programming tool/Compiler

**CONNECTOR WIRING DIAGRAM / PIN ASSIGNMENT**

**X1, 4-pole, connector A-coded**

Pin	Function
1	BAT(+) Module / Input Battery Voltage
2	BAT(-) Module
3	CAN-H
4	CAN-L

**X2, 4-pole, connector B-coded**

Pin	Function
1	Input STB / STG / AIN or Output DOUT/PWM/(-)
2	Input STB / STG or Output DOUT/PWM/(-)
3	Output DOUT/PWM(-)
4	Output DOUT/PWM(-)

DOUT = Digital output  
 PWM = Pulse width modulation  
 AIN = Analog input  
 STB = Switch to battery (input)  
 STG = Switch to ground (input)