

CAN KEYBOARD







Revision A



PRODUCT INFORMATION

CAN keyboard is an universal device that could be connected to PMU and EMU BLACK. All keys are back lighted in 3 colors GREEN, ORANGE and RED.

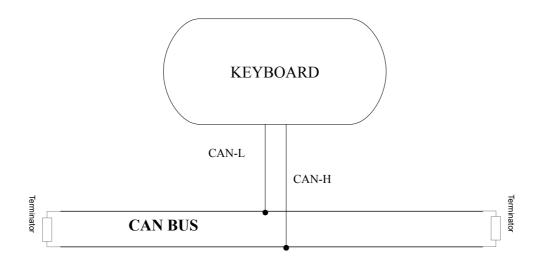
The color indicates current state of the key. Keys inserts are customizable (available icon list included in appendix A). Custom icons are available on request.

The keyboards are water proof (IP67).

CONNECTION

TERMINAL	Function
1 (blue)	CAN L
2 (white)	CAN H
3 (black)	Ground
4 (red)	Power (12-24V)

The mating connector type is Amphenol AT06-4S.





DEFAULT SETTINGS

Parameter	Default vale
CAN Speed	500kbps
CAN IDs	0x195 (BASE), 0x615 (RCV), 0x715(STATUS)

During the start up the device send out the one status message (0x715 by default).

For **EMU BLACK** only this CAN ID configuration is supported.

For **PMU** the base CAN ID could be in the range of 0x180 to 0x195.

Depends on base CAN ID, RCV and STATUS messages ID changes.

For example for base CAN ID 0x180, RCV = 0x600, STATUS = 0x700.

To determine device base ID status message could be observed.



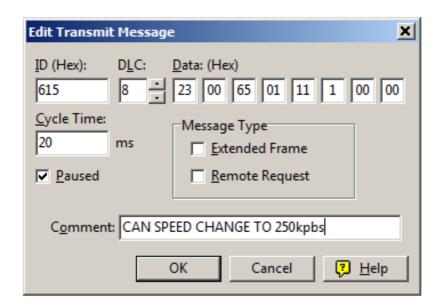
CAN SPEED CHANGE

To change CAN SPEED the following message should be sent:

CAN ID	DLC	0	1	2	3	4	5	6	7
RCV ID	8	0x23	0x0	0x65	0x01	0x11	SPD	0x0	0x0

SPD VALUE	BAUD RATE
0	125kbps
1	250kbps
2	500kbps

Sample message for keyboard with 0x195 BASE ID (from PCAN-View software) to change speed to 250kbps.





BASE ID CHANGE

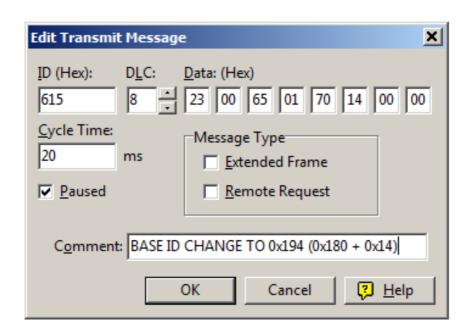
To change BASE ID the following message should be sent:

CAN ID	DLC	0	1	2	3	4	5	6	7
RCV ID	8	0x23	0x0	0x65	0x01	0x70	NEW ID	0x0	0x0

New BASE ID = 0x180 + NEW ID

New RCV ID = 0x600 + NEW ID

Sample message for keyboard with 0x195 BASE ID (from PCAN-View software) to change BASE ID to 0x194

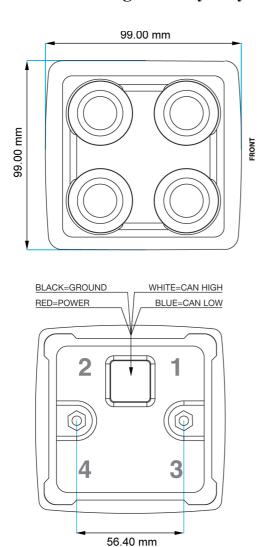


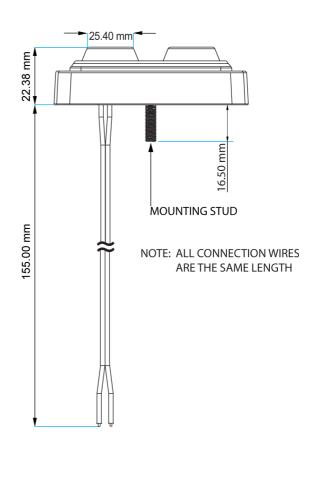


Technical specification

Power supply	8-24V
Standby current	< 50mA
Switch life	3 milion operations
Operating temp.	-40 to 85C
Enclosure protection	IP 67
CAN BUS speed	125kbps, 250kbps, 500 kbps

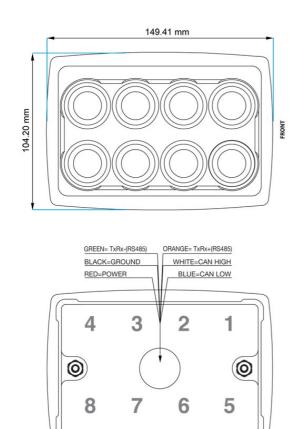
Technical drawing for 4 keys keyboard

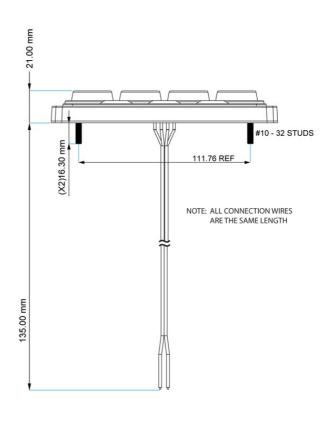






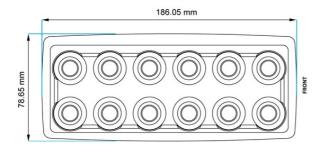
Technical drawing for 8 keys keyboard

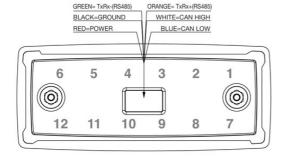


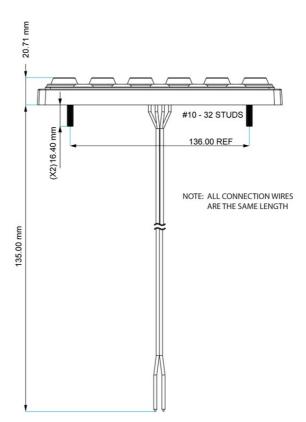




Technical drawing for 12 keys keyboard









CAN KEYBOARD INSERTS

(15mm for 12 keys keyboard, 24mm for 4 and 8 keys keyboard)

002	ACC 003	014	016	022	024
030	031	032	041	052	056
068	069	071	074	076	091
092	099	100	101	102	162
164	169	170	172	173	3
175	176	163	A/M 98	STOP 166	
B409	AUX B193	B212	B265	RESET B346	