

# CCD1200S Compact Controller with Display

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- 4 Buttons
- 3.5" colour TFT
- 38 configurable I/O
- Programmable via Guitu
- Designed for operation at both 12V DC and 24V DC
- Real Time Clock

CCD1200S is compact and versatile I/O controller equipped with 3,5-inch colour TFT-display. It has 38 configurable I/O lines.

The unit has a built-in Real-Time Clock, which can be used for logging events with a time stamp.

## Technical Information

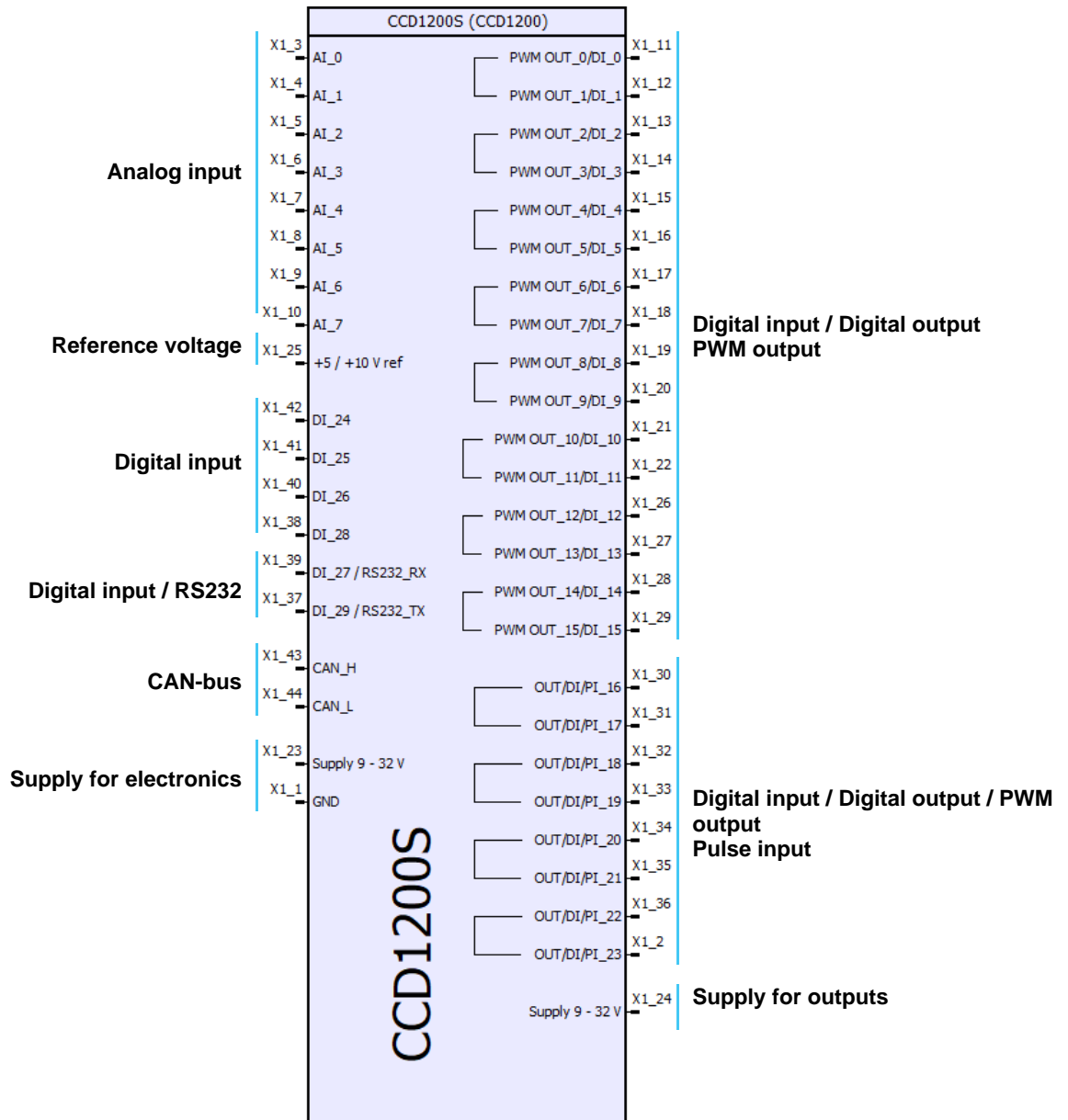
- 9-32 VDC Operating voltage range  
(Protected against reverse polarity)
- -30...+70 °C operating temperature range
- -30...+80 °C storage temperature range
- 3.5" TFT colour display (Resolution QVGA, 320x240)
- 32-bit microprocessor
- 512 kB RAM
- 2 MB flash memory
- IP67 aluminium housing
- Weight 0.7kg
- Main dimensions 127 mm x 146 mm x 37 mm
- One 44 pin AMP Super Seal connector
- CAN interface 2.0B, ISO 11898
- Serial interface RS232
- Real time clock (RTC)

## I/O Interface

- Total of 38 configurable IO-lines
- Separate supply for outputs and electronics
- The I/O interface is protected against short to GND and to supply voltage
- Configurable reference voltage: 5V / 10V, max 150mA

Amount	Configurability	Details
16	Digital input Digital output PWM output	Low < 3 V, High > 5 V, max 100 Hz High side driver, max 3 A High side driver, max 3 A
8	Digital input Analog input	Low < 1,5 V, High > 3,2 V, max 100 Hz 12-bit AD converter 0-10,3 V, 69 kΩ 0-22 mA, 150 Ω
8	Digital input Pulse input Digital output PWM output	Low < 3 V, High > 5 V, max 100 Hz Low < 3 V, High > 5 V, max 20 kHz High side driver, max 3 A High side driver, max 3 A
4	Digital input	Low < 2 V, High > 6,5 V, max 100 Hz
2	Digital input RS232	Low < 2 V, High > 6,5 V, max 100 Hz Note: max 15 V

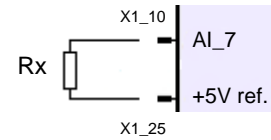
## Wiring Diagram



## Node Id

As default the unit Node address is set by a voltage level at AI\_7.

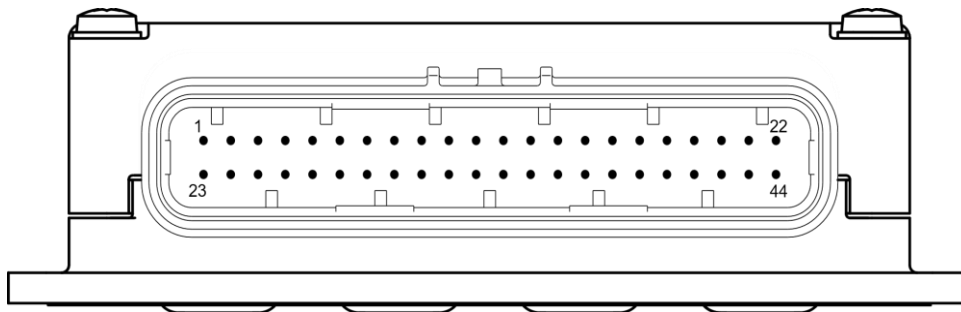
Voltage at AI_7	Node ID offset	Rx / $\Omega$
0V	1	open
0.9V	9	330k
1.7V	3	150k
2.6V	11	68k
3.5V	5	33k
4.3V	13	11k
5.2V	7	Closed



Node ID = Base Node ID (103) + Node ID offset

See also product's CANopen profile for further details.

## Connector

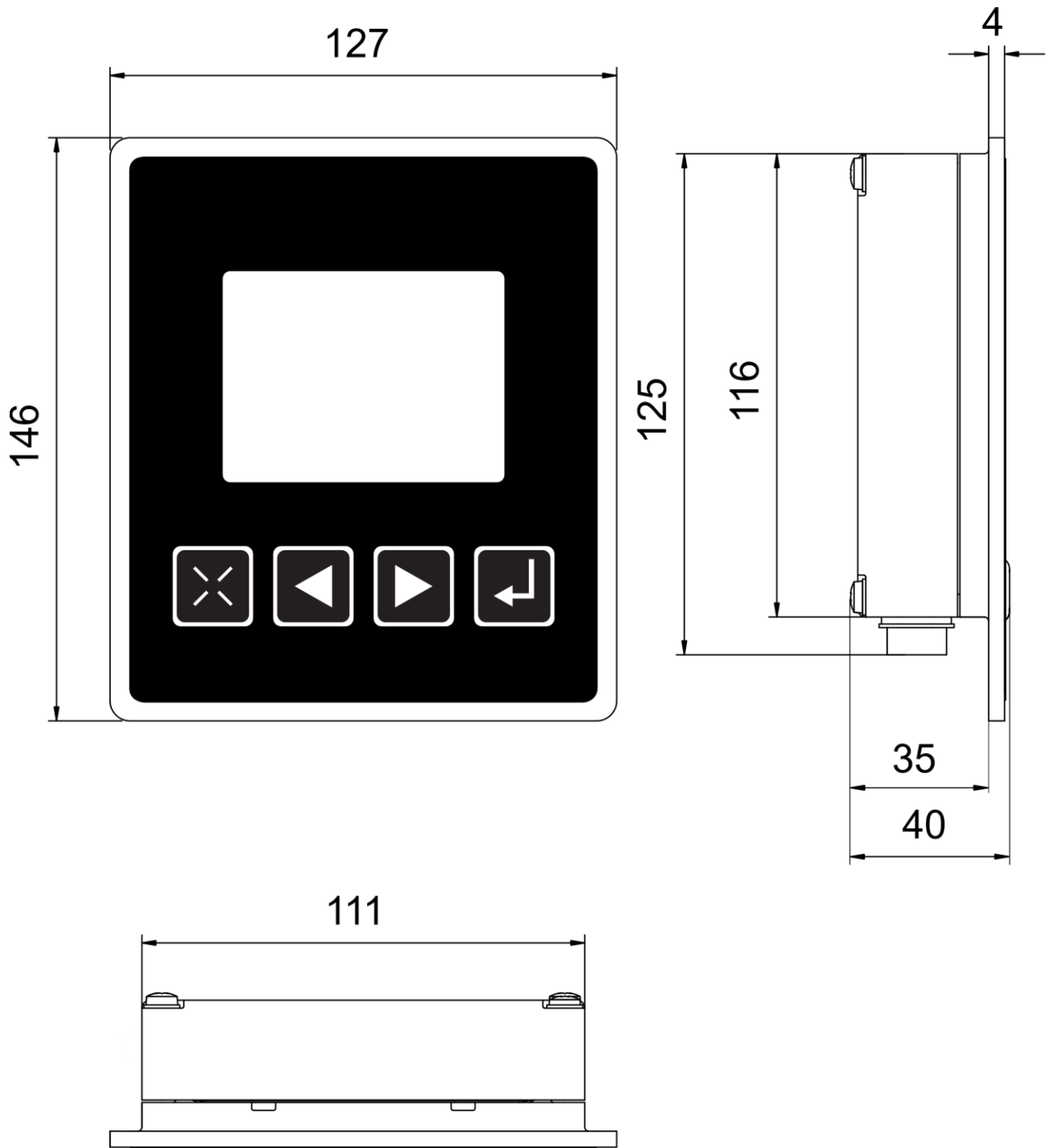


## Superseal connector

Superseal connector needed:

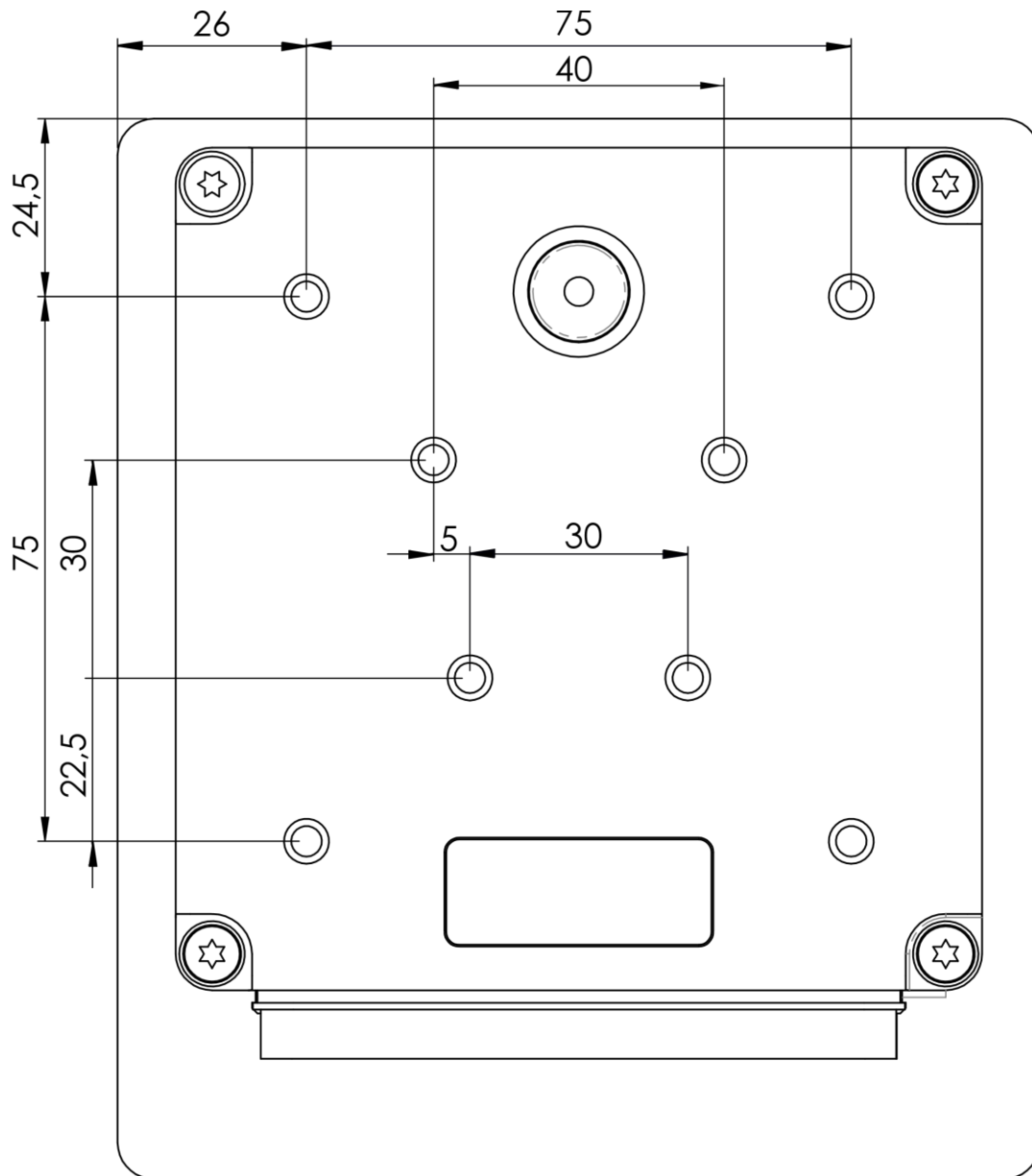
Super Seal Connector Plug Housing	Ø1.6-2.2 mm - AMP 1376886-1 Ø 2.0-2.4 mm - AMP 2-1447232-6
Receptacle Contact (0.75 – 1.25mm <sup>2</sup> )	AMP 3-1447221-3
Filler Plug *)	AMP 4-1437284-3 Deutsch 0413-204-2005

\*) Filler plugs must be used on empty cavities to reach waterproofness

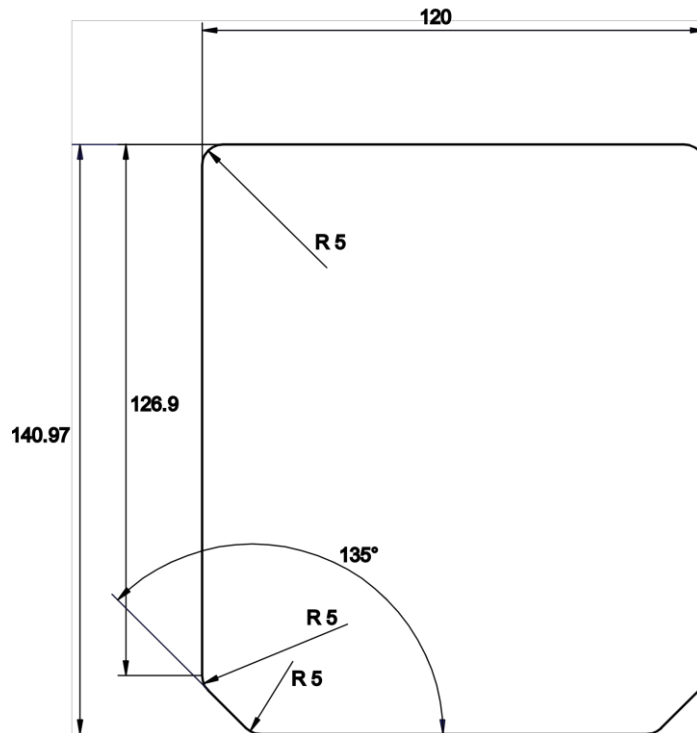
**Dimensions**

## Mounting

CCD1200S can be mounted on panel or used with RAM<sup>®</sup>-mount. When mounted on panel, maximum panel thickness is 2 mm. There is available bracket for panel mounting. Contact Exertus for additional information.



Recommended opening for panel installation.



The preferred mounting position is connectors pointing downwards. If the unit is mounted connectors pointing to the side, then it is vital to leave some loose cable with a downward cue to prevent the ingress of moisture through connector.

