

Ruggedized control unit - internal connections

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Revision	Author	Date	Notes
v01	B. Treachi	09/01/2024	Initial version
v02	B. Treachi	19/08/2024	Small changes

Revision	Approved by	Date
v01	E.Varrenti, M.Picchi	10/01/2024

1. Scope

The goal of this document is to describe the internal connections of the Ruggedized Control Unit and to provide a guideline to open and then close it properly.

Please refer to the *Installation Instructions* of the Ruggedized Control Unit (*Inxpect SAF-MI-100S-200S_Ruggedized_26000060_7_00299_multi.pdf*) for more information about the Ruggedized Control Unit and its available models.

2. When to open the ruggedized control unit

The control unit should be opened - by skilled personnel - only in the following cases:

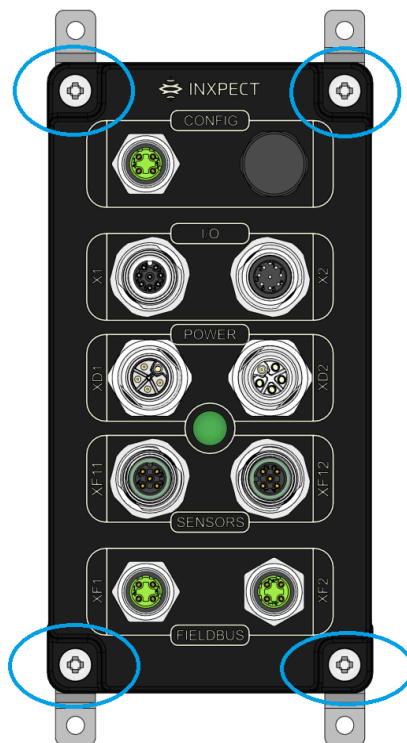
- perform the *SD Restore*
- replace the SD card
- check the status of the LEDs

Please read the Instruction Manual of *Inxpect SRE 100* or *200 Series* (depending on the system you are using) carefully for detailed information on how to do these single operations.

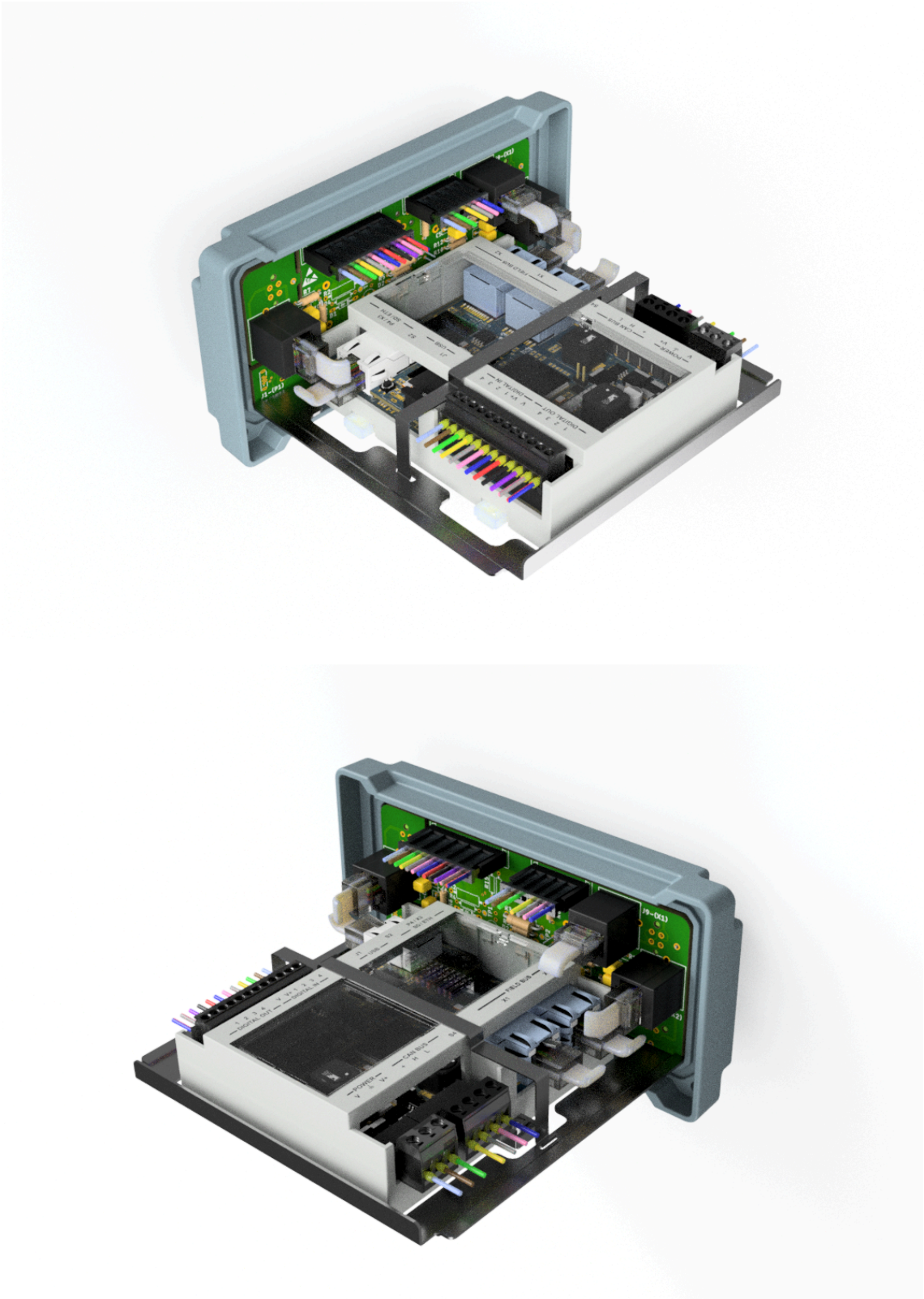
Note: the SD card is included and already inserted in the Ruggedized Control Unit.

3. How to open the ruggedized control unit

In order to open the Ruggedized Control Unit, just remove the four screws on the front of the case using a cross screwdriver.

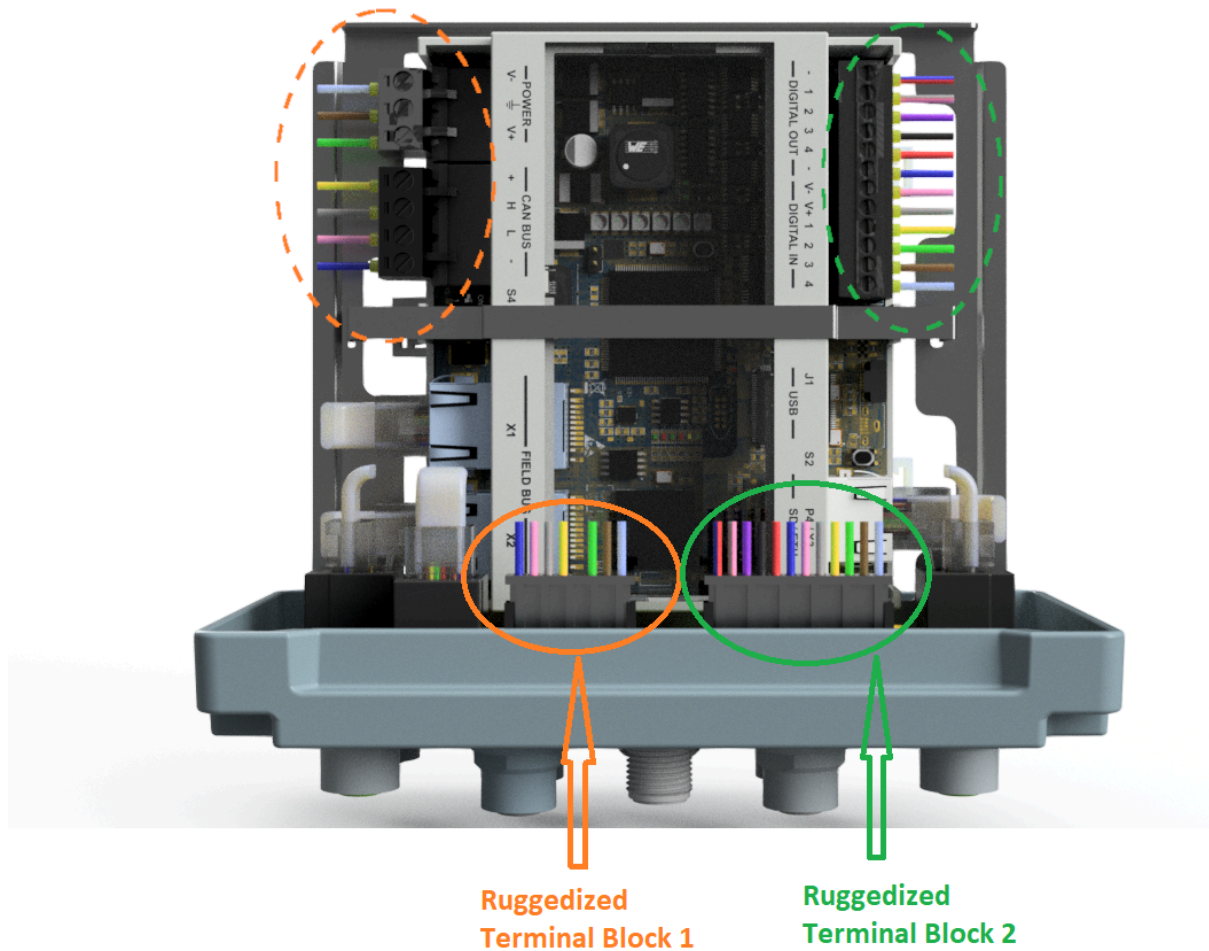


4. Internal connections

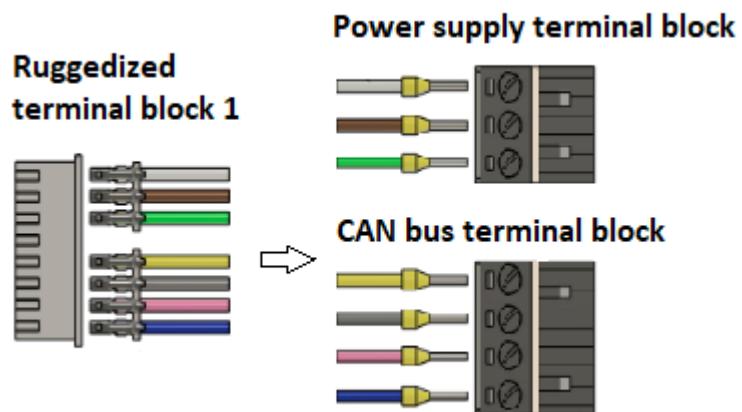


4.1 Main terminal blocks

The two main terminal blocks of the board inside the Ruggedized Control Unit are connected to the C20xB control unit by means of two custom cables.

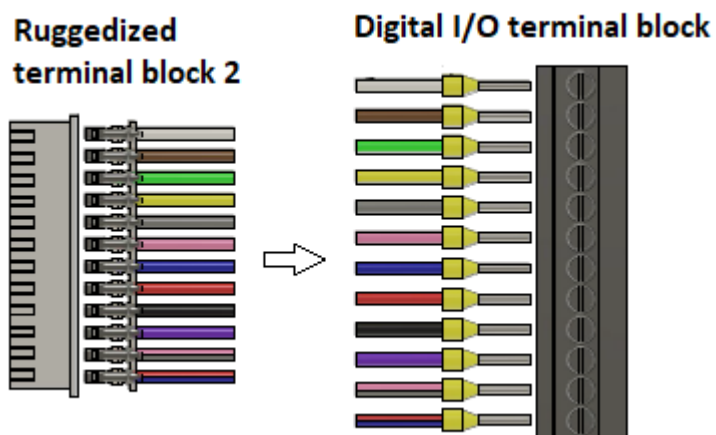


4.1.1 Ruggedized terminal block 1 - custom cable 1



Connection diagram		
Ruggedized terminal block 1 position	Color	Description
1	White	+24 V DC
2	Brown	Earth
3	Green	GND
4	-	-
5	Yellow	+12 V DC output
6	Grey	CAN H
7	Pink	CAN L
8	Blue	GND

4.1.2 Ruggedized terminal block 2 - custom cable 2



Connection diagram		
Ruggedized terminal block 2 position	Color	Description
1	White	Input 2, Channel 2, 24 V DC, type 3
2	Brown	Input 2, Channel 1, 24 V DC, type 3
3	Green	Input 1, Channel 2, 24 V DC, type 3
4	Yellow	Input 1, Channel 1, 24 V DC, type 3
5	Grey	V+ (SNS), 24 V DC
6	Pink	V- (SNS), common reference
7	Blue	GND
8	Red	Output 4 (OSSD4)
9	Black	Output 3 (OSSD3)
10	Violet	Output 2 (OSSD2)
11	Grey / Pink	Output 1 (OSSD1)
12	Red / Blue	GND

4.2 Fieldbus / Ethernet / USB

The other terminal blocks of the board inside the Ruggedized Control Unit, used for Fieldbus, Ethernet and USB, are connected to the C20xB control unit by means of standard electrical patches.

