

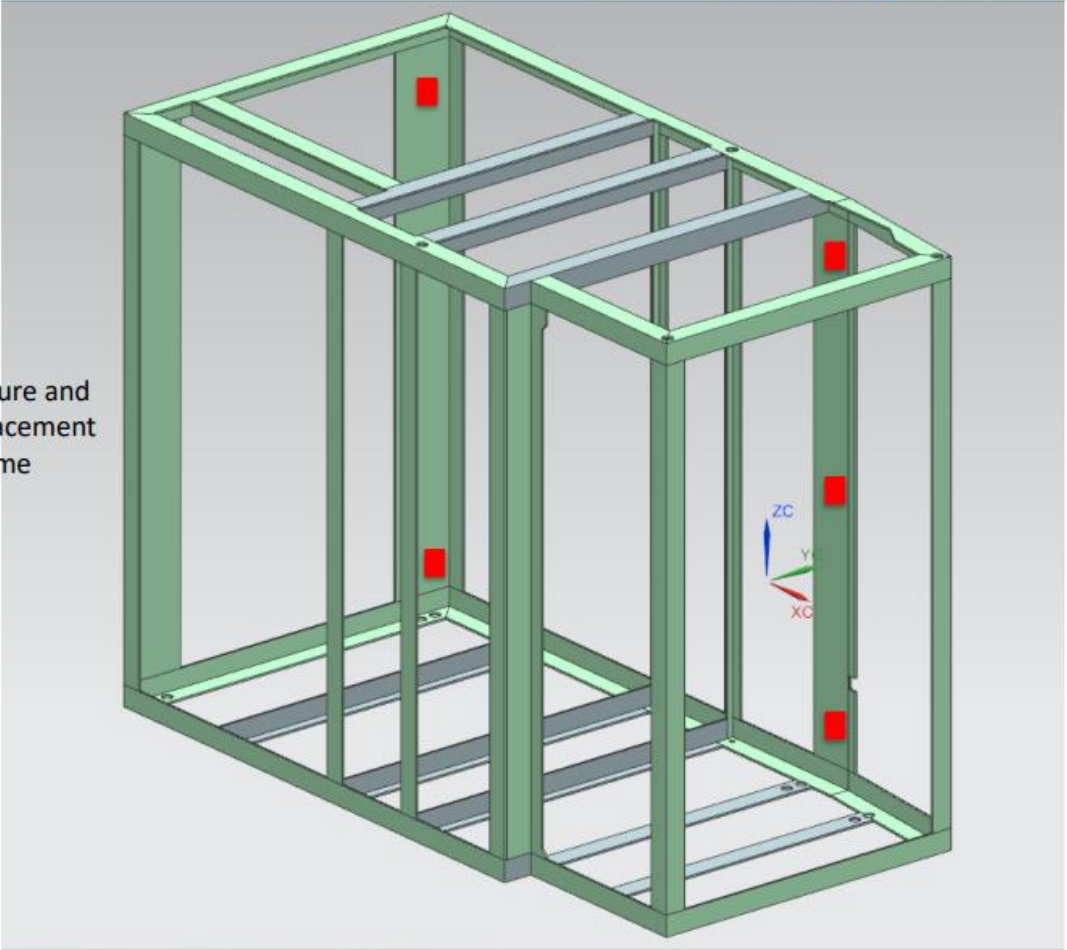
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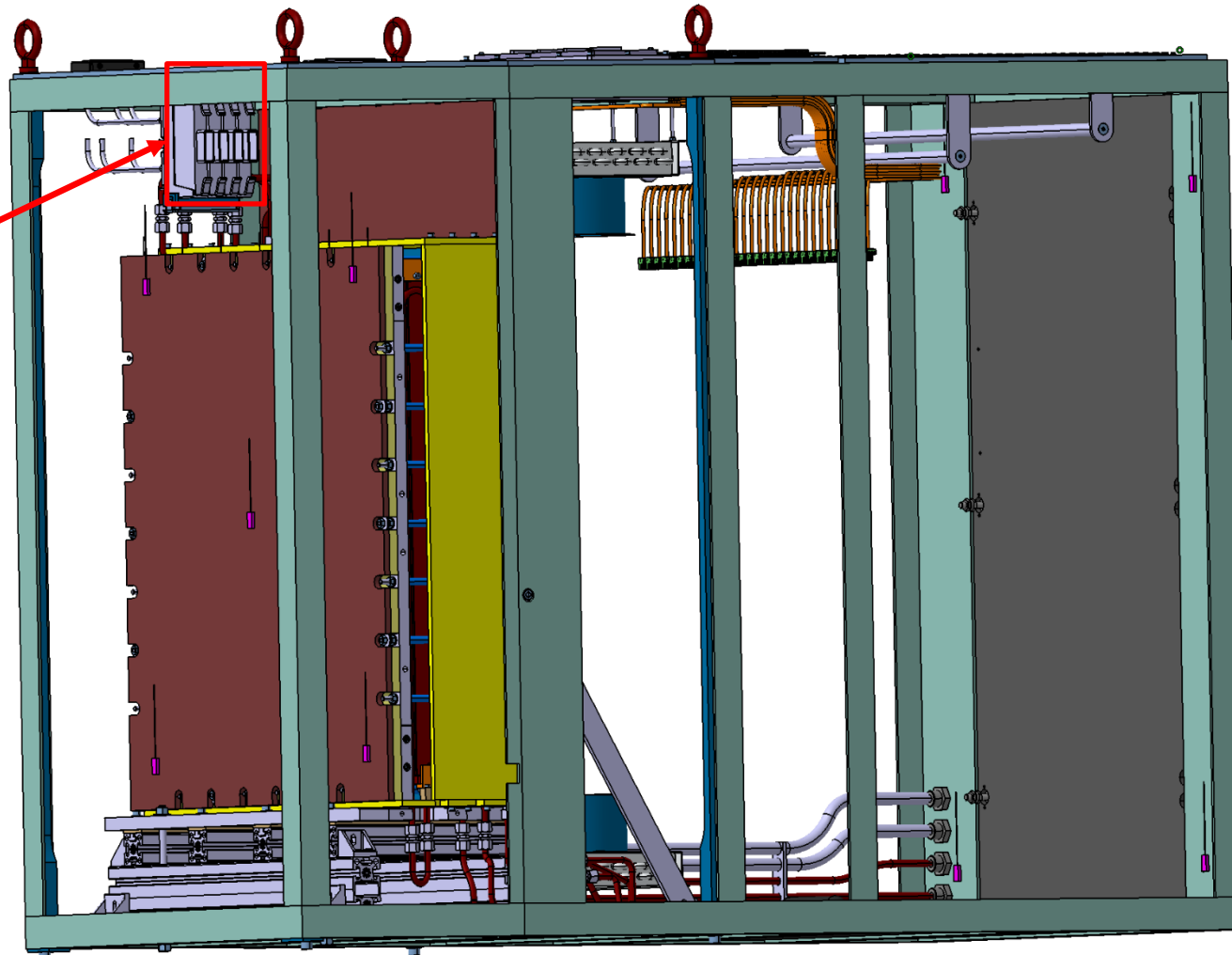
# NPS additional sensors (+ top plate modifications)

# Frame Temperature and Humidity Sensor Placement

Each sensor requires 4 slots in the Keysight terminal block

Tentative temperature and humidity sensor placement within detector frame





Currently 56  
temp sensors at  
the back of the  
crystals

& 56 temp  
sensors in front  
of the crystals

(only 1 slot per  
temp. sensor)

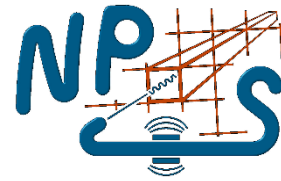
*(112 slots  
needed)*

4 Keysight  
terminal  
block

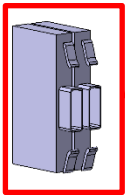
40 slots  
in each  
terminal  
block

24 (12x2) slots available in front 2 blocks & 24 in the back ones (i.e. up to 6 sensors)

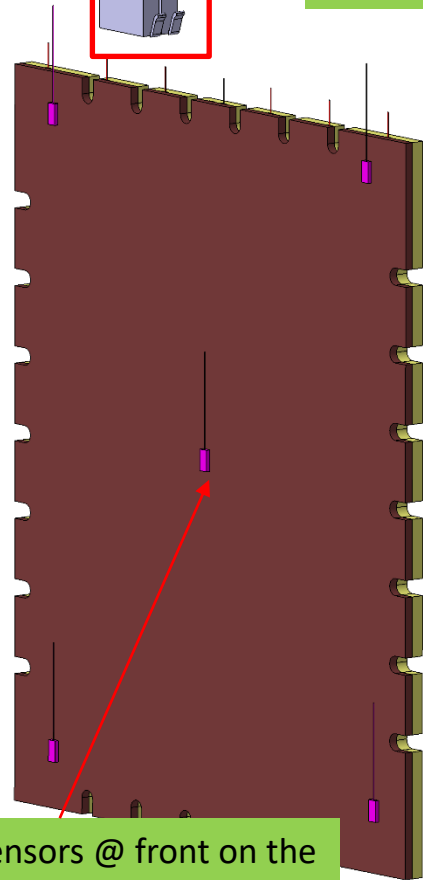
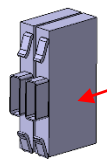
# Front T° and humidity sensors



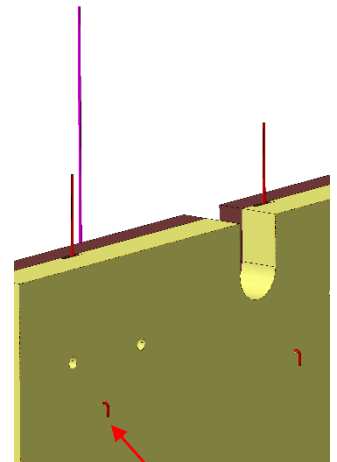
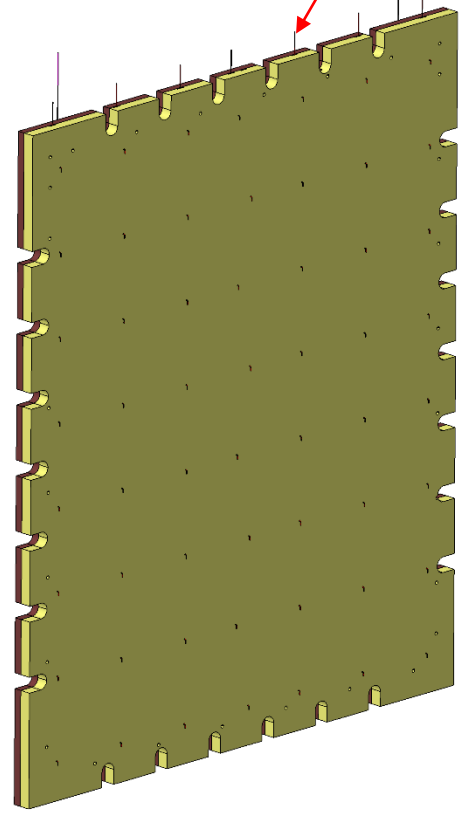
2 Front slots connected to front 56 T° and 5 humidity sensors (these 2 removable front slots will be at first connected to their sensors and inserted in their base when the PE plate will be mounted )



Assembly Connected and removable without disconnection



5 humidity sensors @ front on the foam connected to front slots



T° sensors on the PE plate

# Global humidity sensors

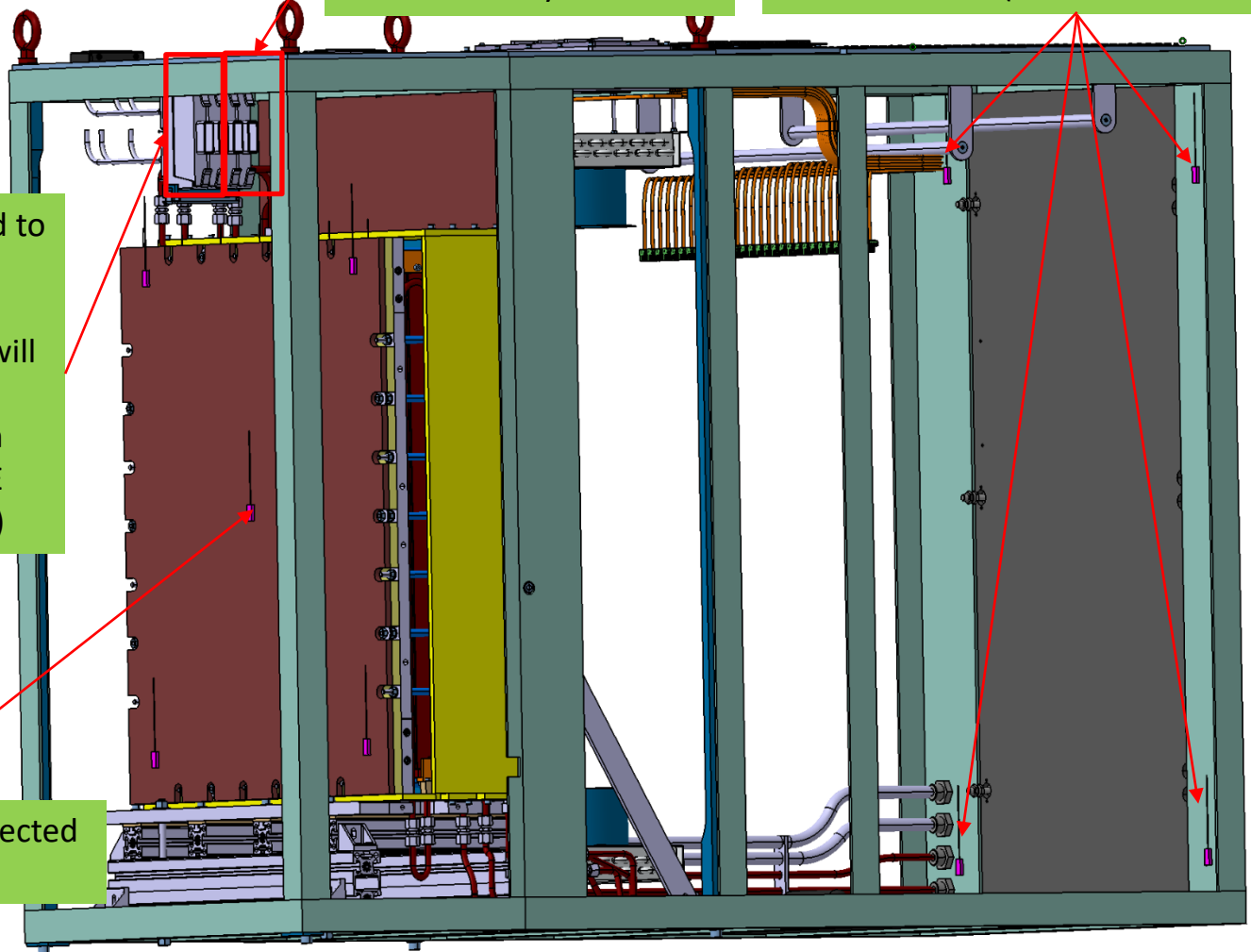


2 backward slots  
connected to rear 56 T°  
and 4 humidity sensors

4 sensors @ back connected to  
backward slots (need 5m cables length)

2 Front slots connected to  
front T° and humidity  
sensors (these 2  
removable front slots will  
be connected to their  
sensors and inserted in  
their base when the PE  
plate will be mounted )

5 sensors @ front connected  
to Front slots



Additional components to buy



34921A 40-Channel Armature Multiplexer  
 for 34980A

1 additional board  
 for DAQ unit



40-Channel Armature Multiplexer for 34980A

**34921A 40-Channel Armature Multiplexer  
 Module for 34980A w/ low thermal offset**  
 + See Configuration

US\$ 1,146

**2 Day Delivery - Included** | After order processing

**Buy Now**

Sold by: Keysight Online Sales



Y1135A 1.5 m 50-pin D-Sub Cable

2 more cables for  
 terminal blocks



Connect this M/F twisted pair with outer shield cable to 34980A  
 multifunction switch/measure mainframe and modules

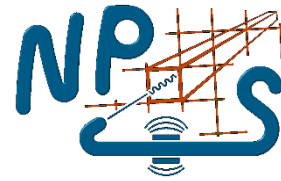
**Y1135A Dsub, M/F Twisted Pair with Outer  
 Shield Cable, 1.5m 50 pin VOLT: DC 300V**  
 + See Configuration

US\$ 139

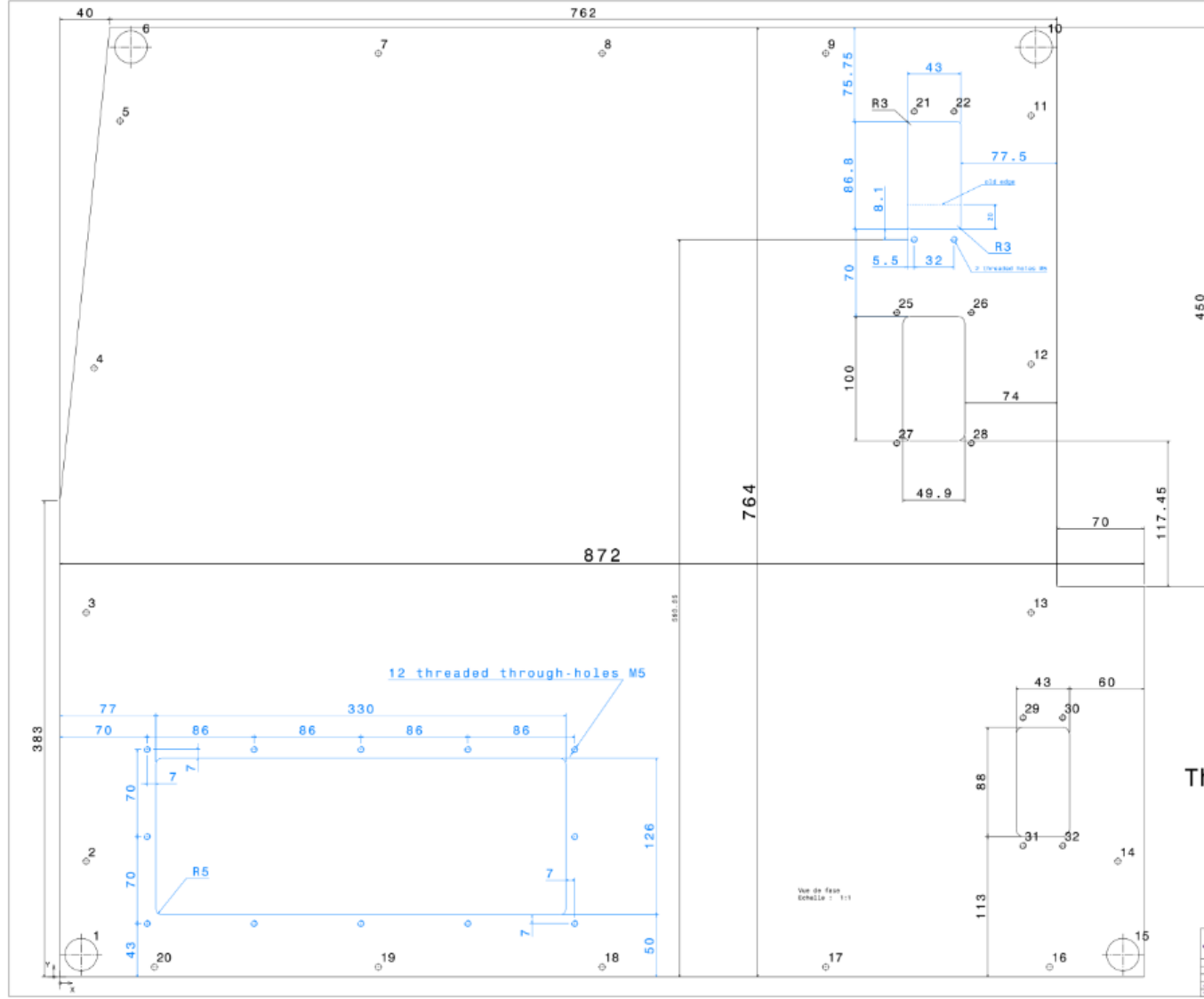
**Delivery - Included** | Usually arrives in 4 weeks

**Buy Now**

# Modifications to the top plate



To be done ideally on June 2<sup>nd</sup> at JLab workshop



REF.	X	Y	Diamètre
1	17	18	26
2	21	93	4,8
3	21	293	4,8
4	27,3	489,69	4,8
5	48,21	688,59	4,8
6	57	748	26
7	256	743	4,8
8	436	743	4,8
9	616	743	4,8
10	785	748	26
11	781	693	4,8
12	781	493	4,8
13	781	293	4,8
14	851	93	4,8
15	855	18	26
16	796	8	4,8
17	616	8	4,8
18	436	8	4,8
19	256	8	4,8
20	76	8	4,8
21	687	696,35	M5
22	719	696,35	M5
23	687	593,35	M5
24	719	593,35	M5
25	673	534,5	M5
26	733	534,5	M5
27	673	429,5	M5
28	733	429,5	M5
29	774,5	208,7	M6
30	806,5	208,7	M5
31	774,5	105,7	M5
32	806,5	105,7	M5

Thickness 8mm

release 04/05/2022

