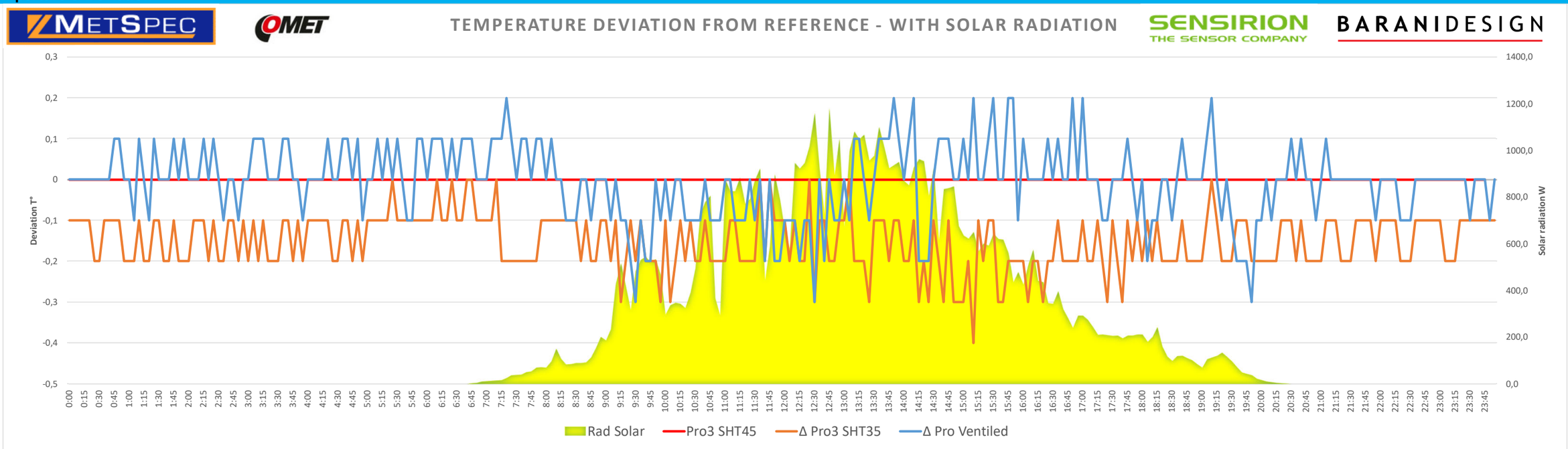
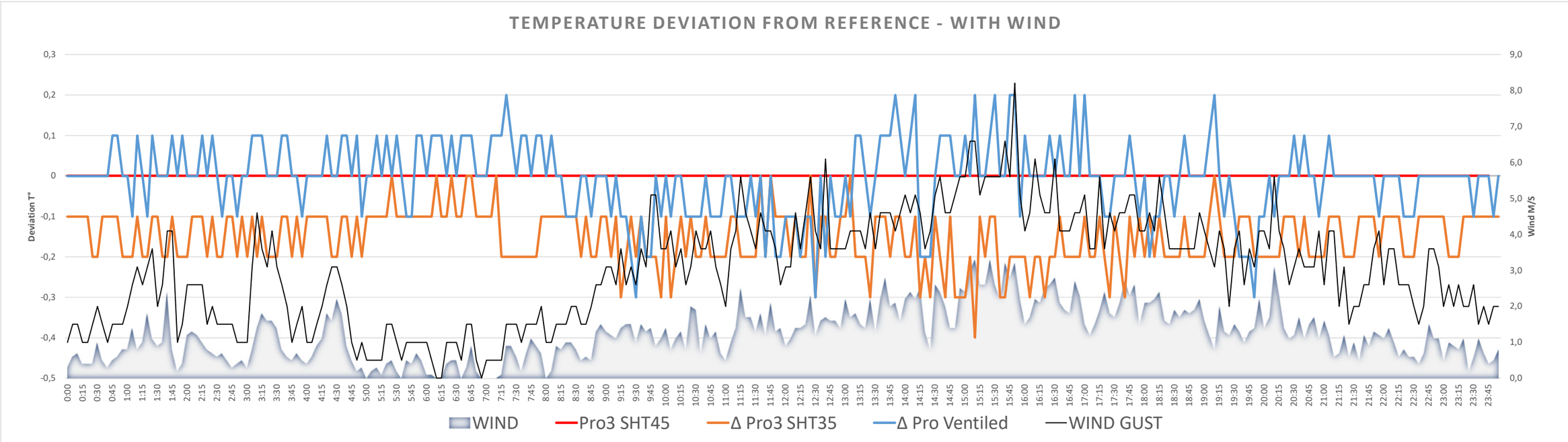
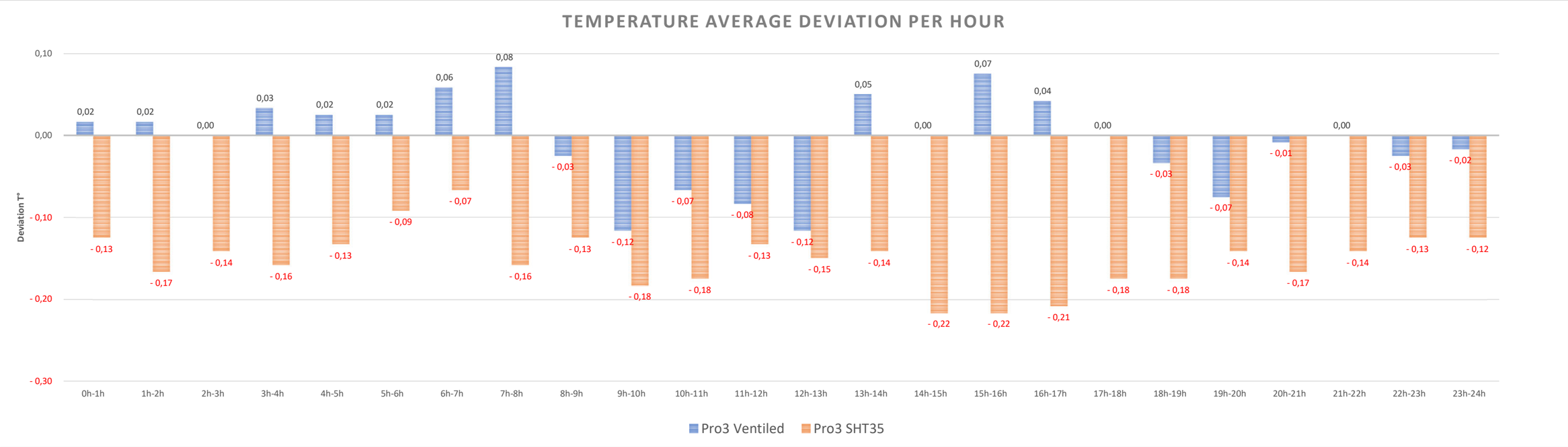
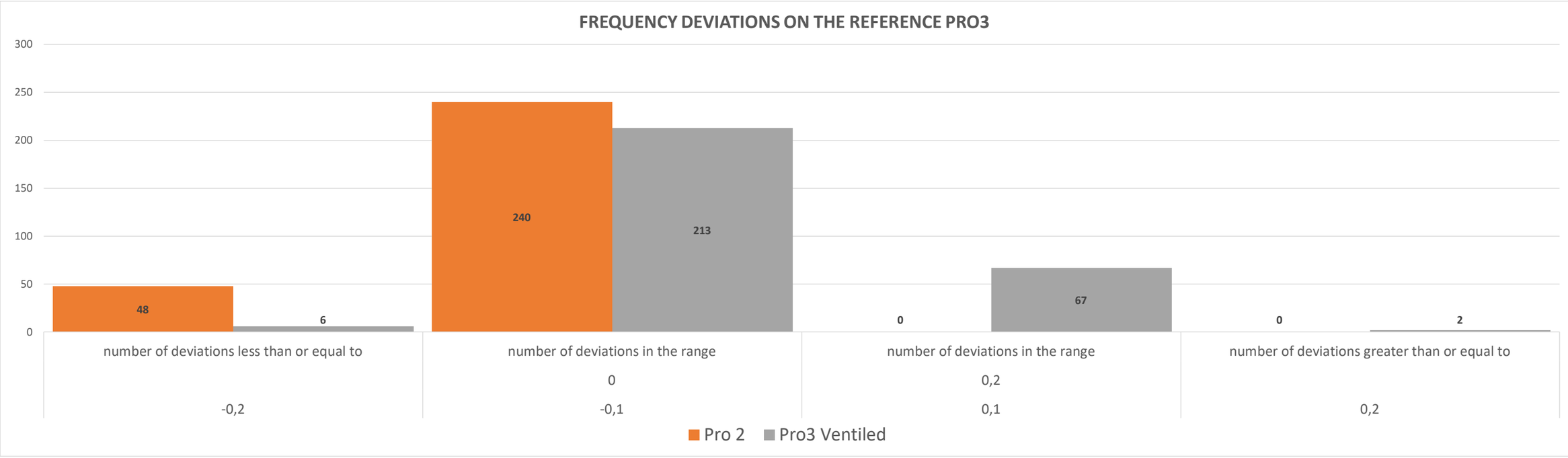
**TOBY - Portugal** **28/04/23**

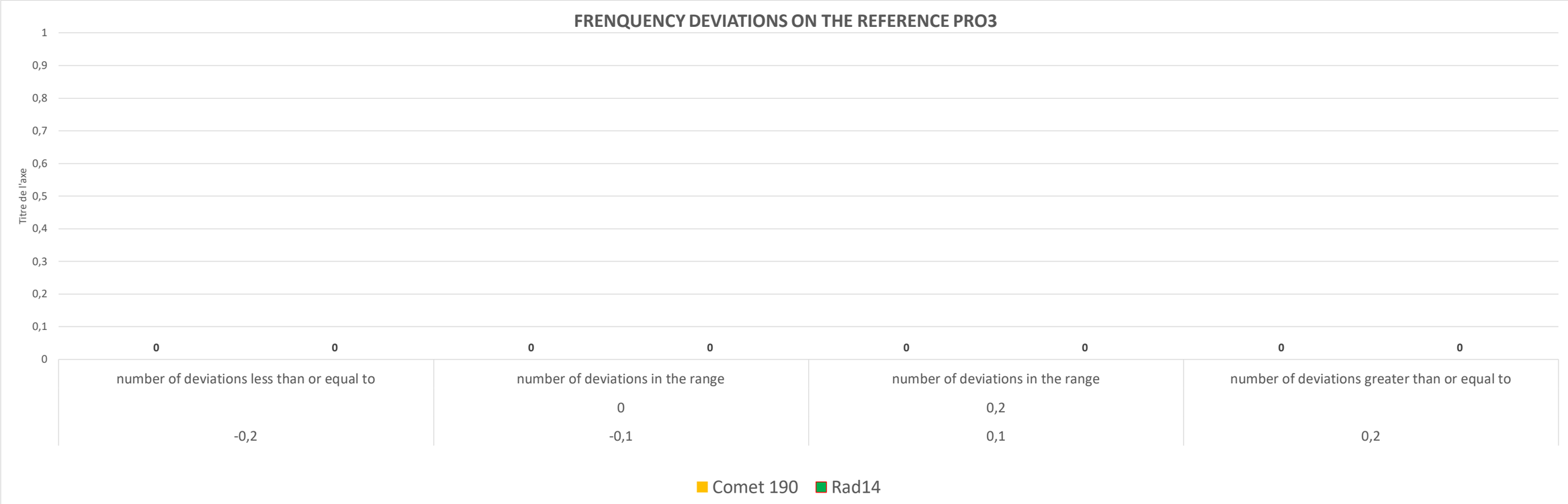
## Temperture & Deviation

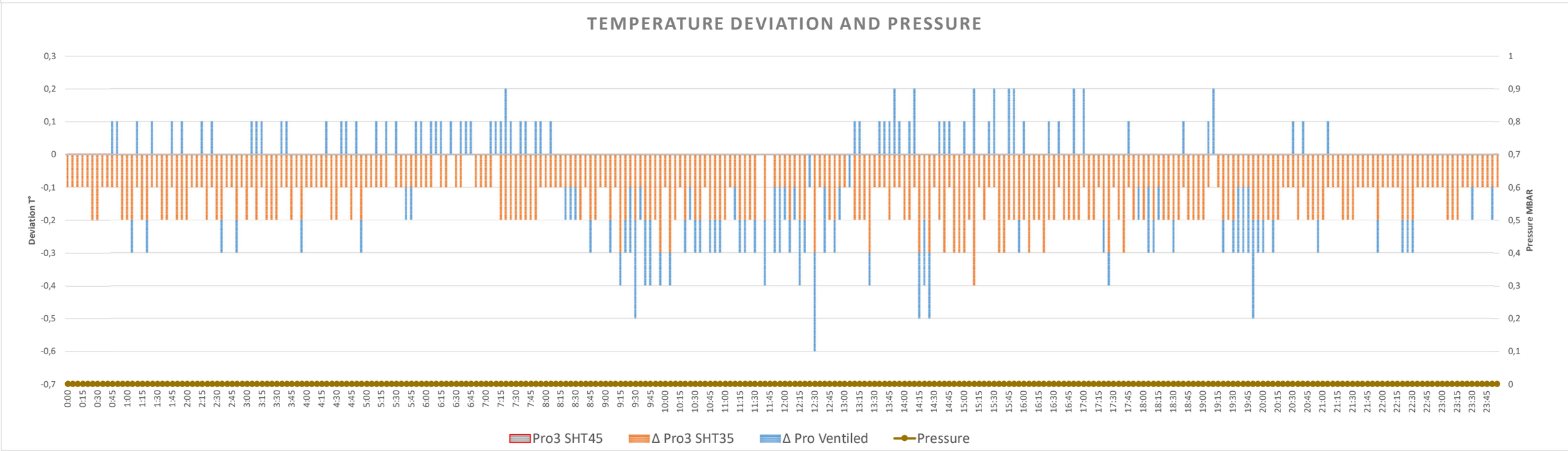


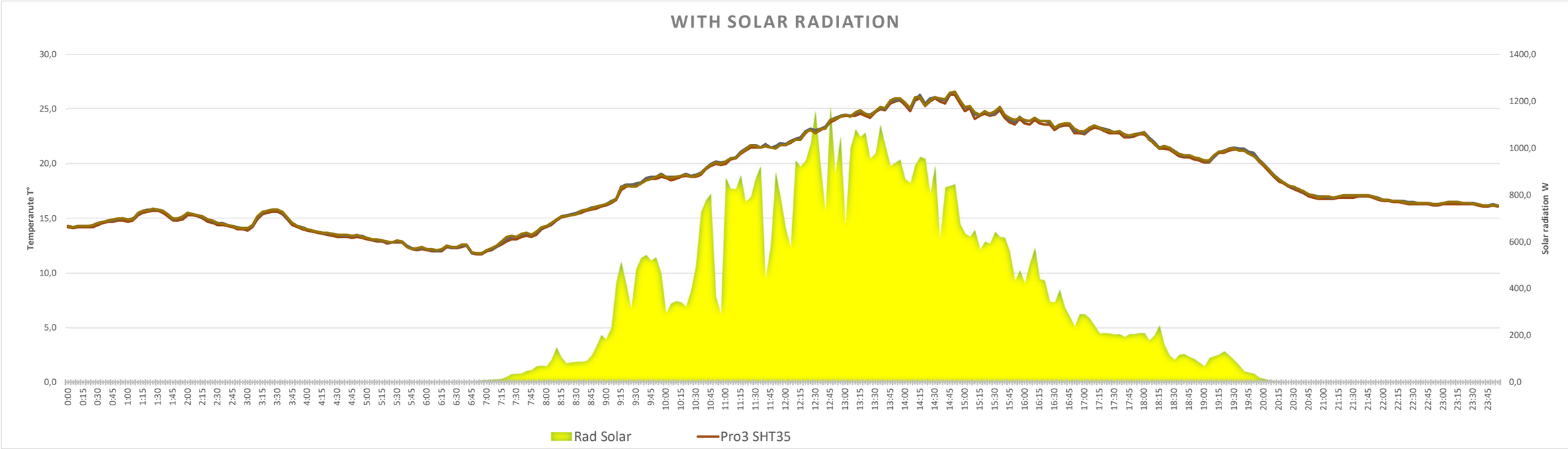

TEMPERATURE AVERAGE DEVIATION PER HOUR
Deviation T°
0,10
0,00
- 0,10
- 0,20
- 0,30
0h-1h
1h-2h
2h-3h
3h-4h
4h-5h
5h-6h
6h-7h
7h-8h
8h-9h
9h-10h
10h-11h
11h-12h
12h-13h
13h-14h
14h-15h
15h-16h
16h-17h
17h-18h
18h-19h
19h-20h
20h-21h
21h-22h
22h-23h
23h-24h
0,02 0,02 0,00 0,03 0,02 0,02 0,06 0,08 - 0,03 - 0,12 - 0,07 - 0,08 - 0,12 0,05 0,00 0,07 0,04 0,00 - 0,03 - 0,07 - 0,01 0,00 - 0,03 - 0,02
- 0,13 - 0,17 - 0,14 - 0,16 - 0,13 - 0,09 - 0,07 - 0,16 - 0,13 - 0,18 - 0,18 - 0,13 - 0,15 - 0,14 - 0,22 - 0,22 - 0,21 - 0,18 - 0,18 - 0,14 - 0,17 - 0,14 - 0,13 - 0,12
Pro3 Ventiled
Pro3 SHT35

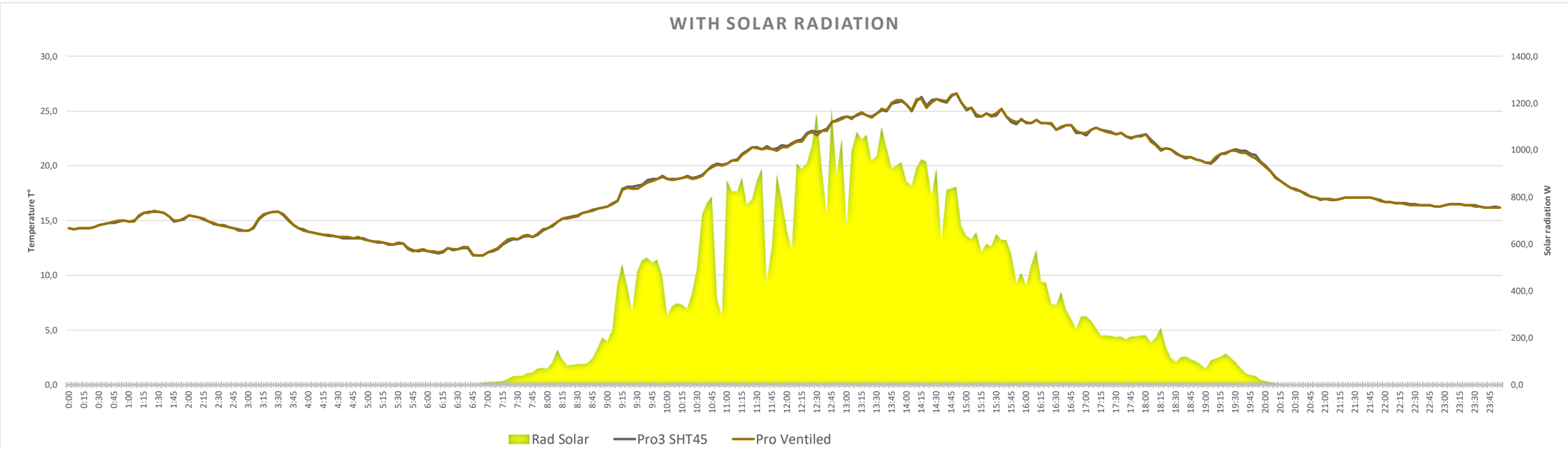

FREQUENCY DEVIATIONS ON THE REFERENCE PRO3
300
250
200
150
100
50
0
48
6
240
213
0
67
0
2
number of deviations less than or equal to
-0,2
number of deviations in the range
0
-0,1
number of deviations in the range
0,2
0,1
number of deviations greater than or equal to
0,2
Pro 2
Pro3 Ventiled

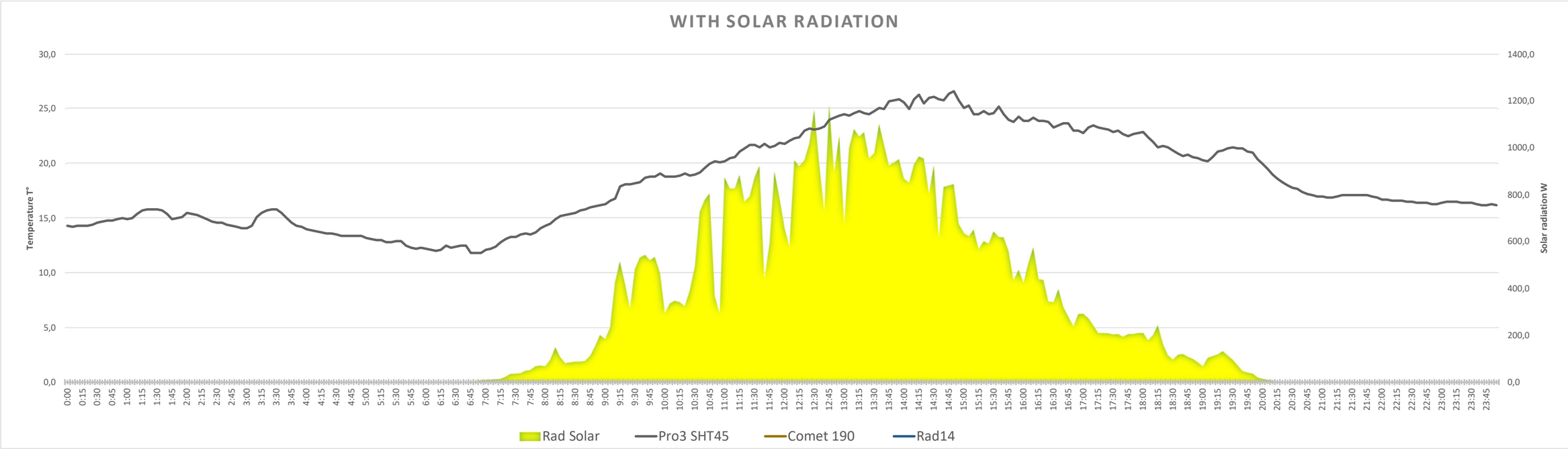

FRENQUENCY DEVIATIONS ON THE REFERENCE PRO3
Titre de l'axe
1
0,9
0,8
0,7
0,6
0,5
0,4
0,3
0,2
0,1
0
0 0 0 0 0 0 0 0
number of deviations less than or equal to
-0,2
number of deviations in the range
0
-0,1
number of deviations in the range
0,2
0,1
number of deviations greater than or equal to
0,2
Comet 190
Rad14

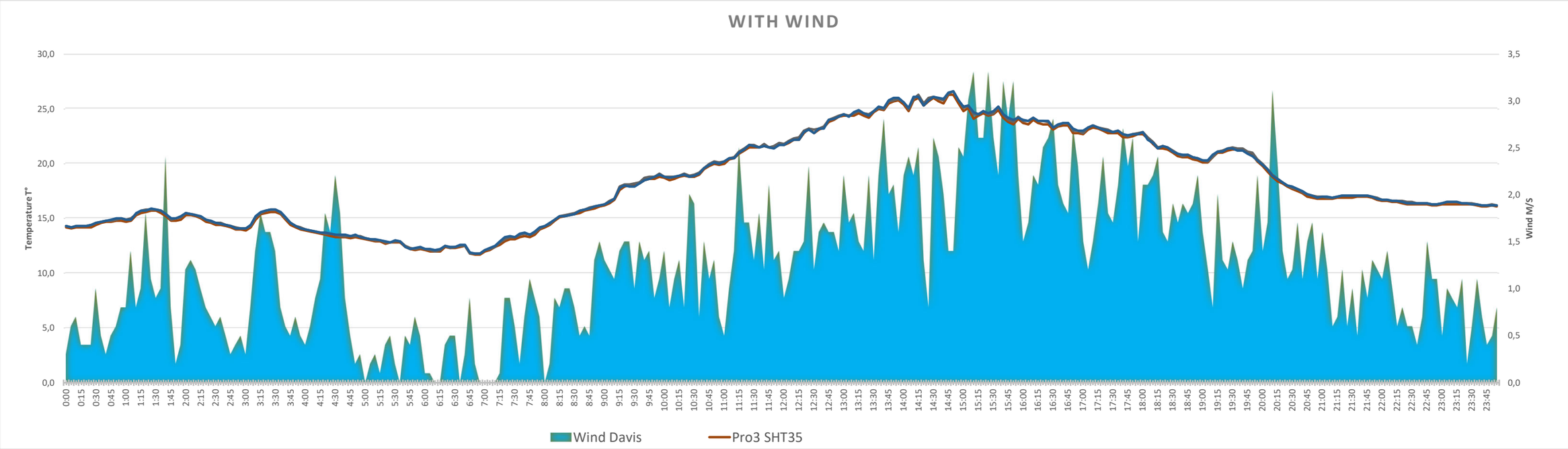

TEMPERATURE DEVIATION AND PRESSURE
Deviation T°
Pressure MBAR
Pro3 SHT45
Δ Pro3 SHT35
Δ Pro Ventiled
Pressure

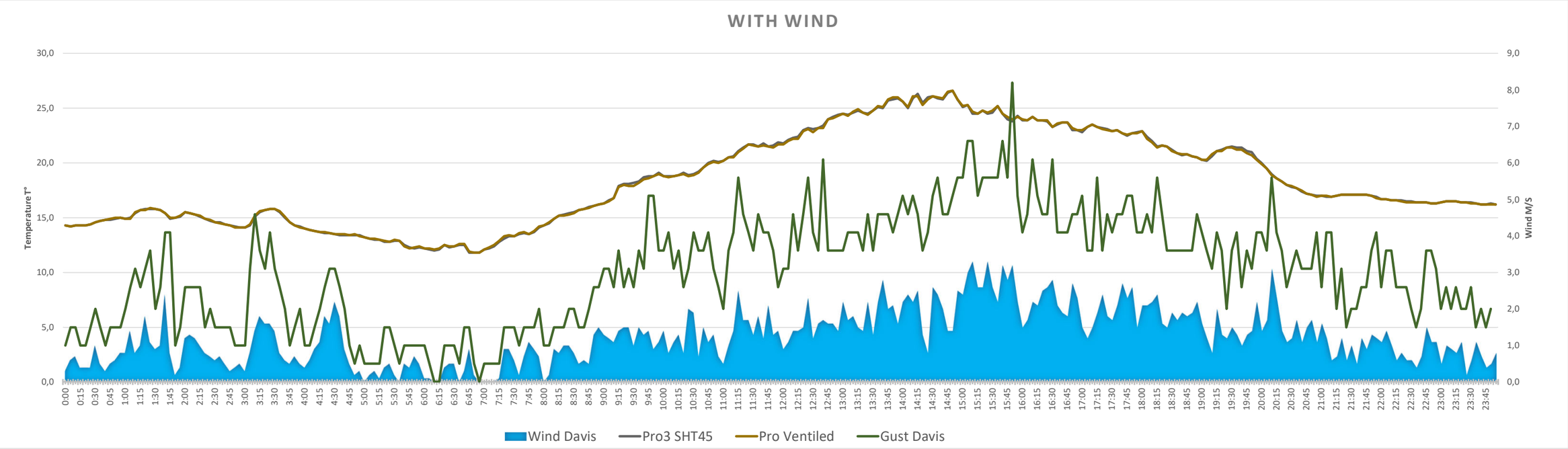
## Daytime temperature developement

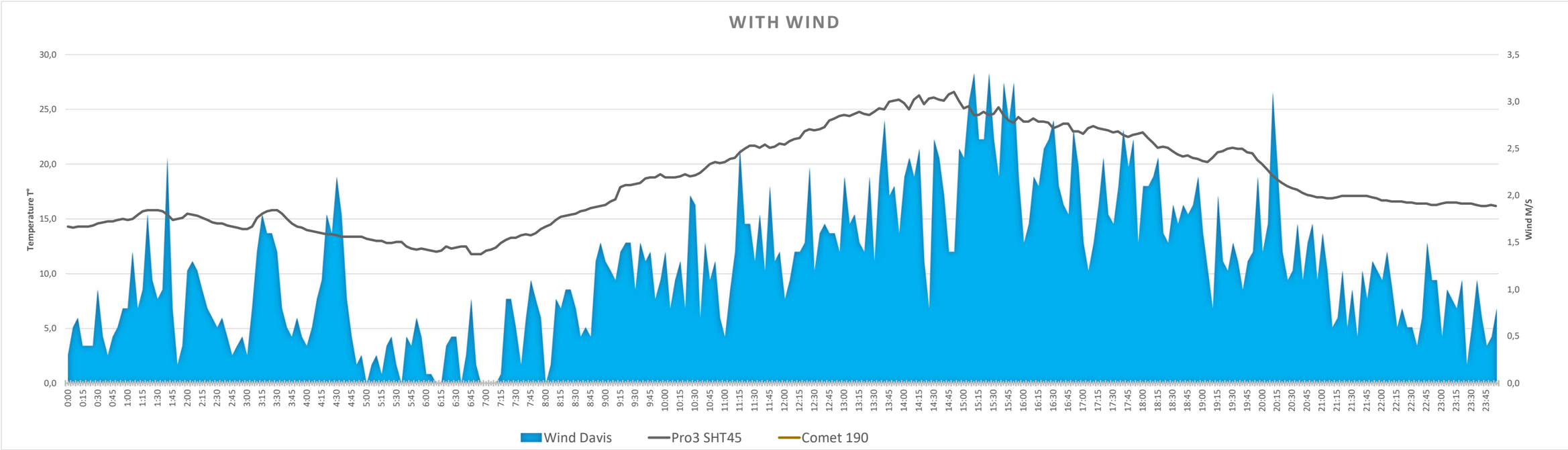


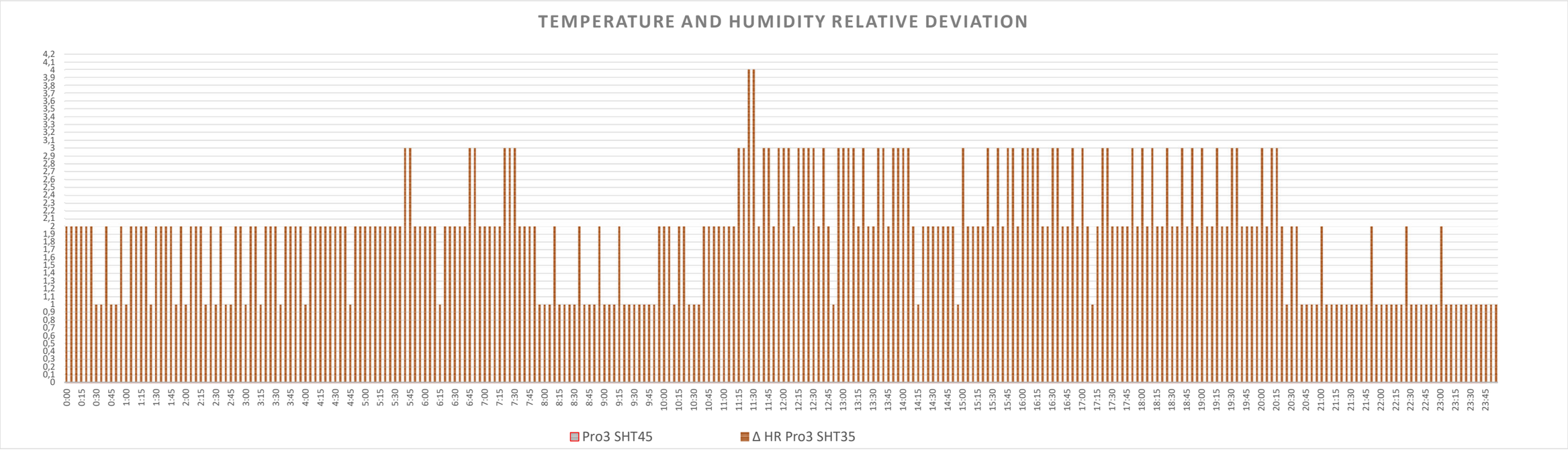

WITH SOLAR RADIATION
Temperature T°
Solar radiation W
30,0
25,0
20,0
15,0
10,0
5,0
0,0
1400,0
1200,0
1000,0
800,0
600,0
400,0
200,0
0,0
Rad Solar
Pro3 SHT45
Comet 190
Rad14

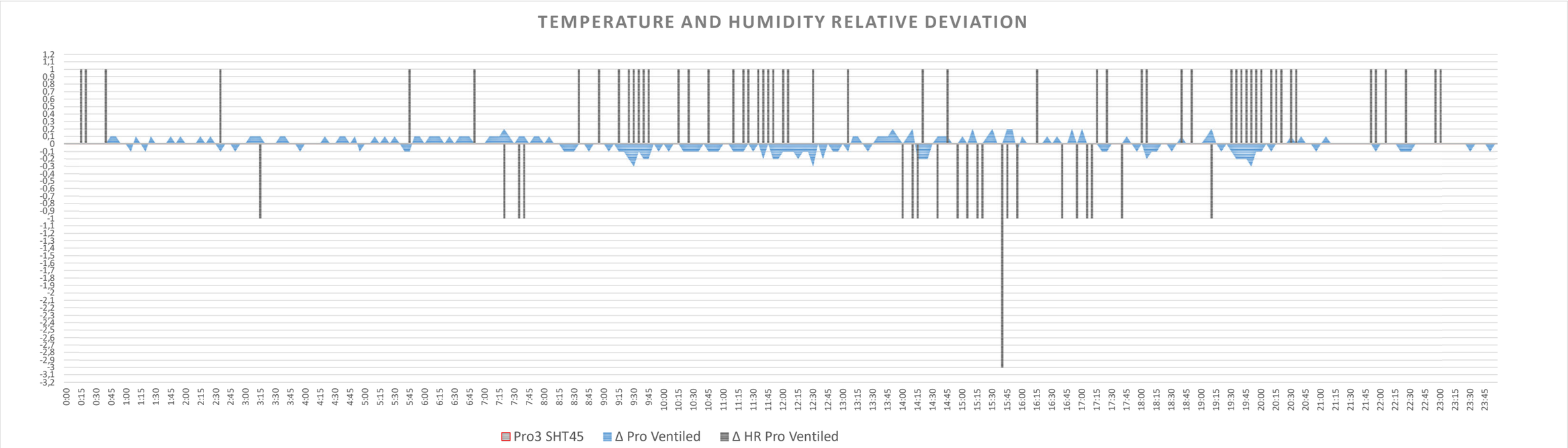

WITH WIND
Temperature T°
Wind M/S
Wind Davis
Pro3 SHT35

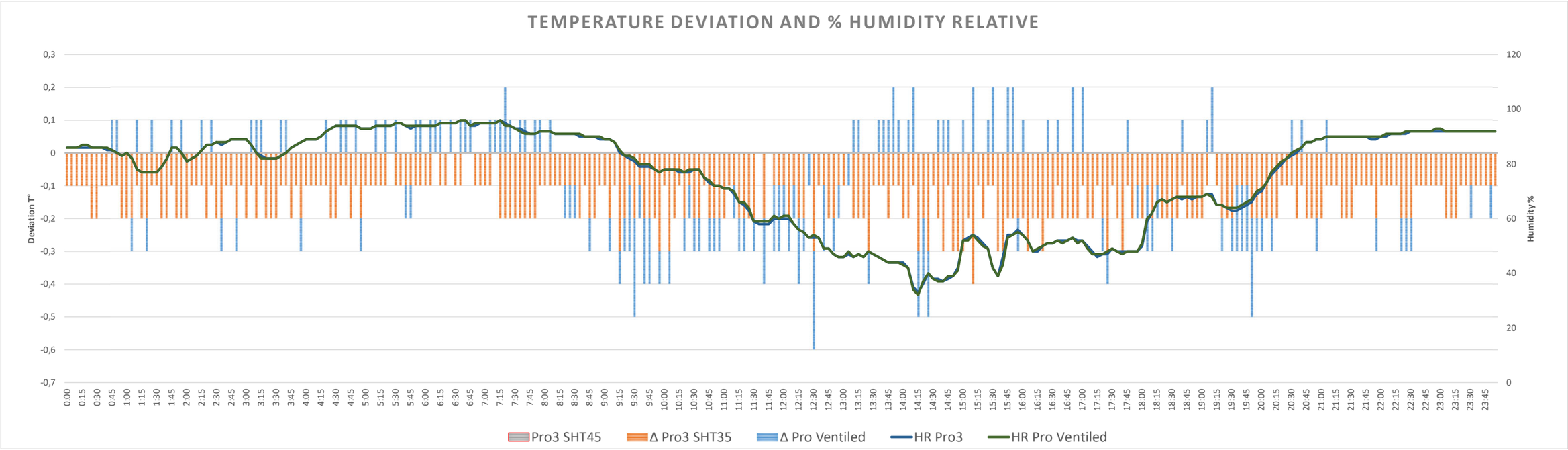

WITH WIND
Temperature T°
Wind M/S
Wind Davis
Pro3 SHT45
Pro Ventiled
Gust Davis


WITH WIND
Temperature T°
Wind M/S
Wind Davis
Pro3 SHT45
Comet 190

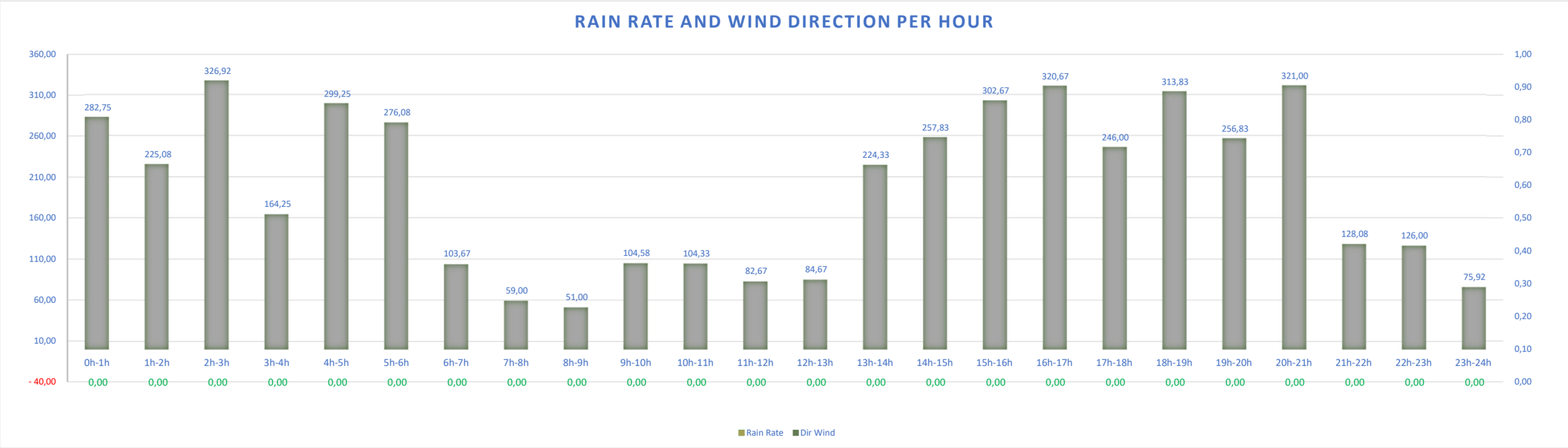
## Humidity Relative

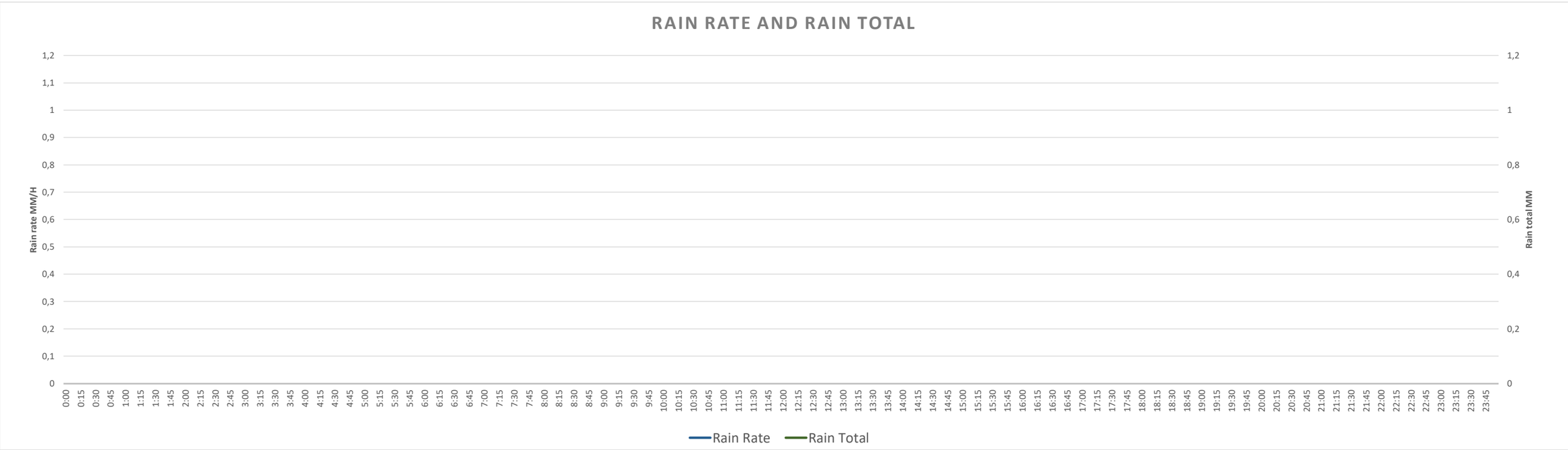


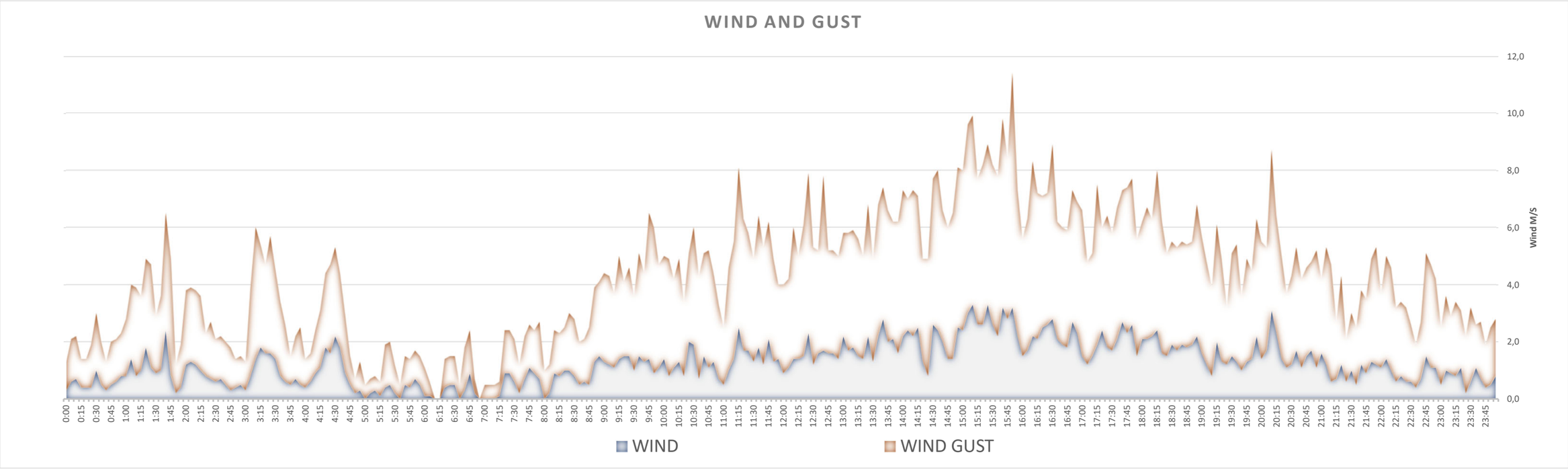

TEMPERATURE DEVIATION AND % HUMIDITY RELATIVE
Deviation T°
Humidity %
Pro3 SHT45
Δ Pro3 SHT35
Δ Pro Ventiled
HR Pro3
HR Pro Ventiled

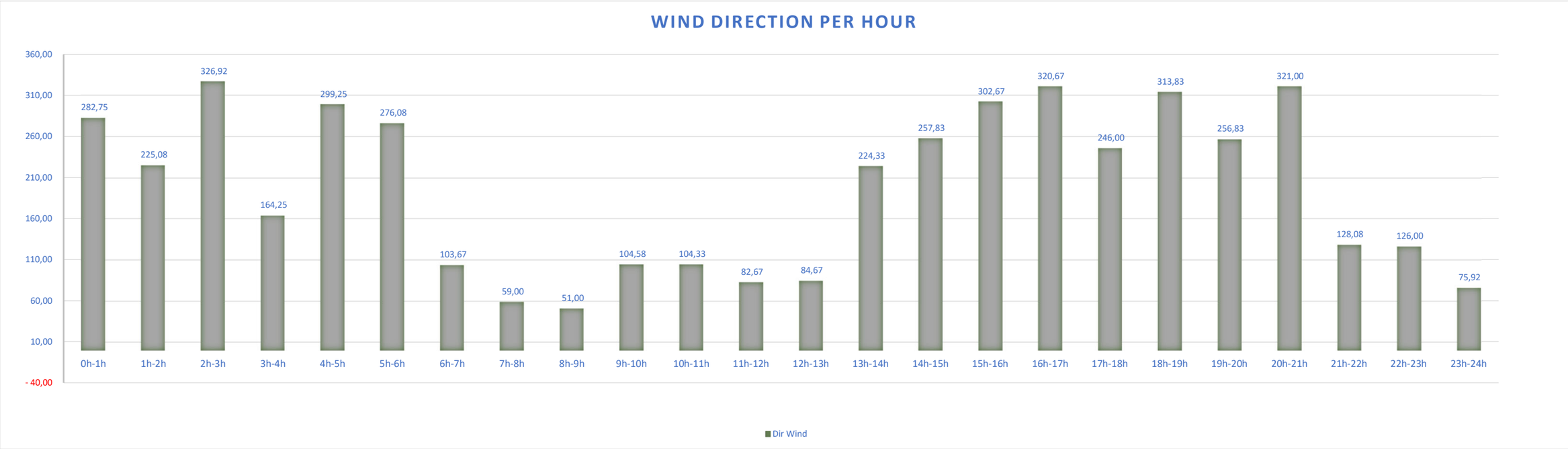
## Rain

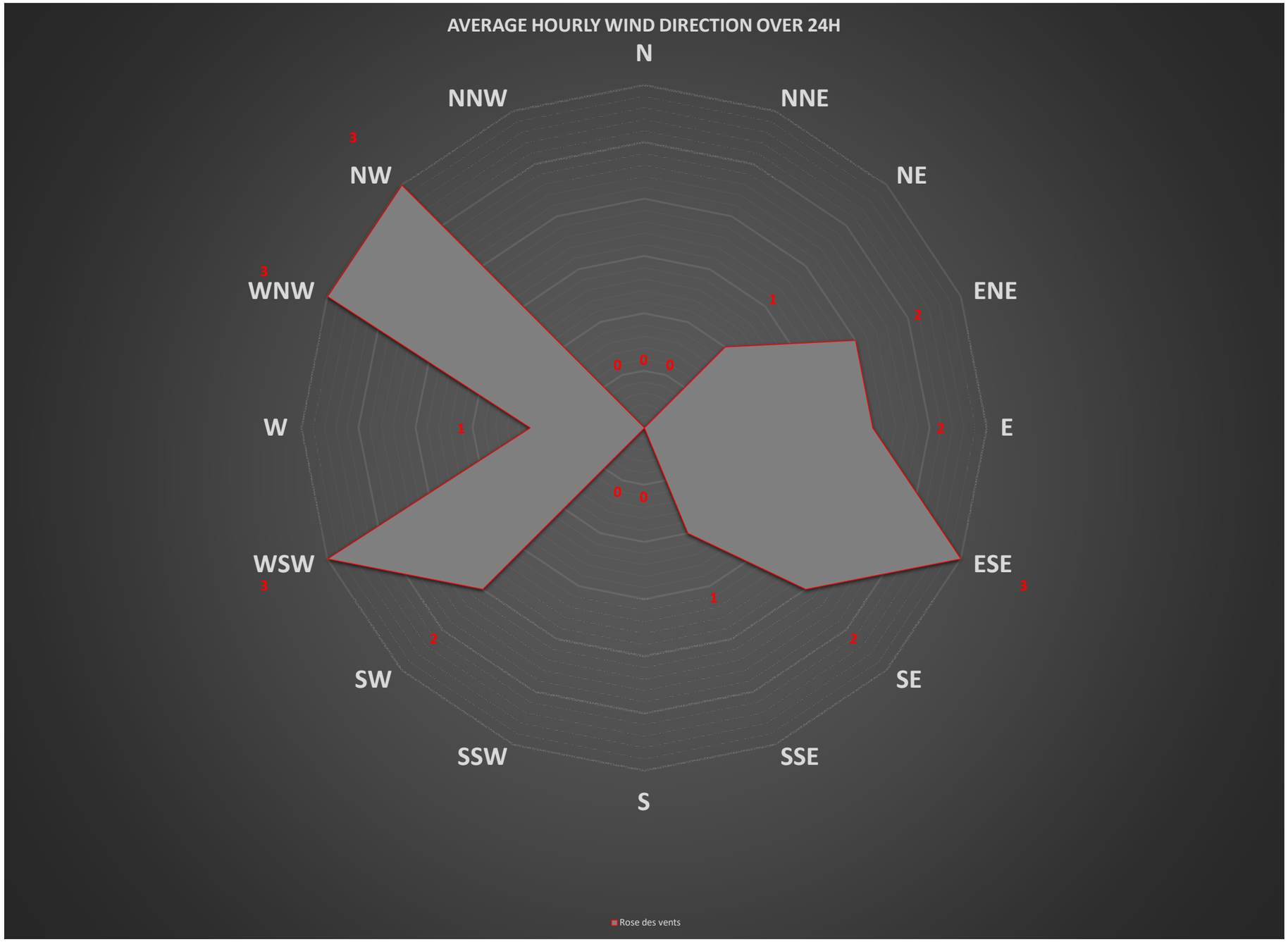

RAIN RATE AND WIND DIRECTION PER HOUR
360,00
310,00
260,00
210,00
160,00
110,00
60,00
10,00
- 40,00
1,00
0,90
0,80
0,70
0,60
0,50
0,40
0,30
0,20
0,10
0,00
282,75
225,08
326,92
164,25
299,25
276,08
103,67
59,00
51,00
104,58
104,33
82,67
84,67
224,33
257,83
302,67
320,67
246,00
313,83
256,83
321,00
128,08
126,00
75,92
0h-1h
1h-2h
2h-3h
3h-4h
4h-5h
5h-6h
6h-7h
7h-8h
8h-9h
9h-10h
10h-11h
11h-12h
12h-13h
13h-14h
14h-15h
15h-16h
16h-17h
17h-18h
18h-19h
19h-20h
20h-21h
21h-22h
22h-23h
23h-24h
Rain Rate
Dir Wind

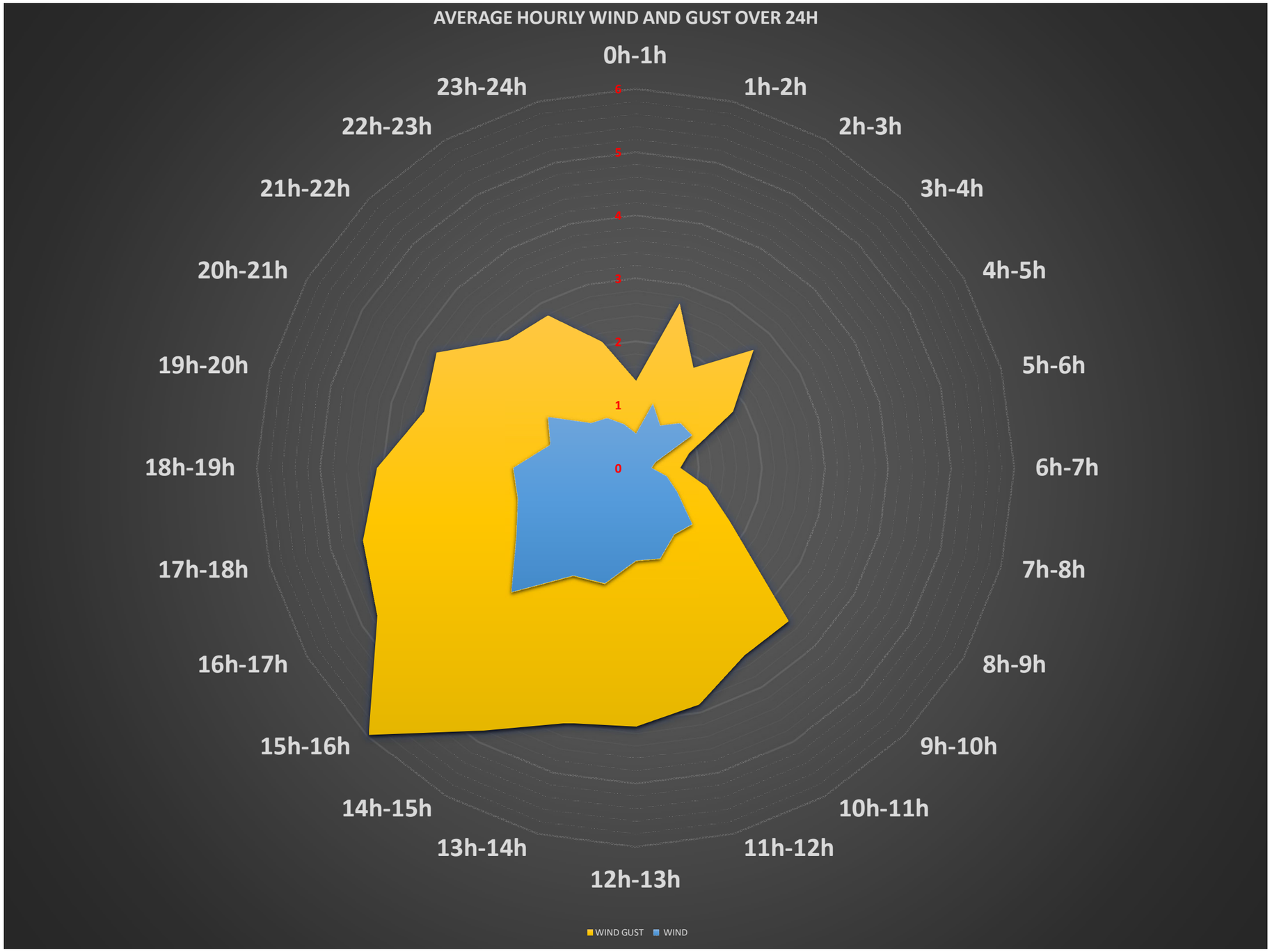

RAIN RATE AND RAIN TOTAL
Rain rate MM/H
Rain total MM
Rain Rate
Rain Total

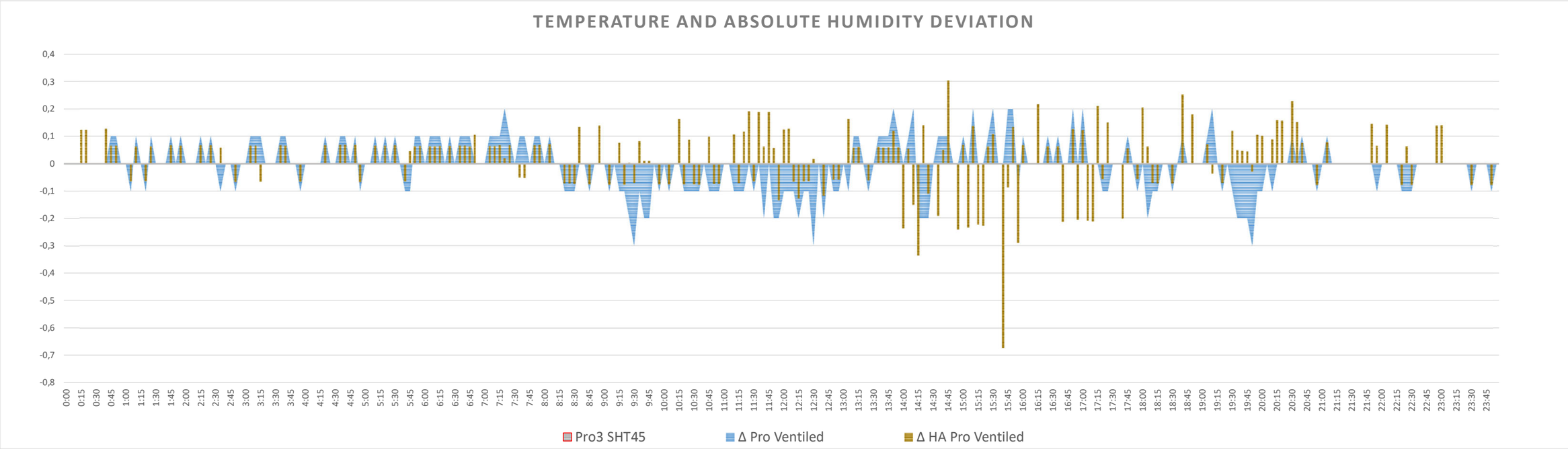
## WIND

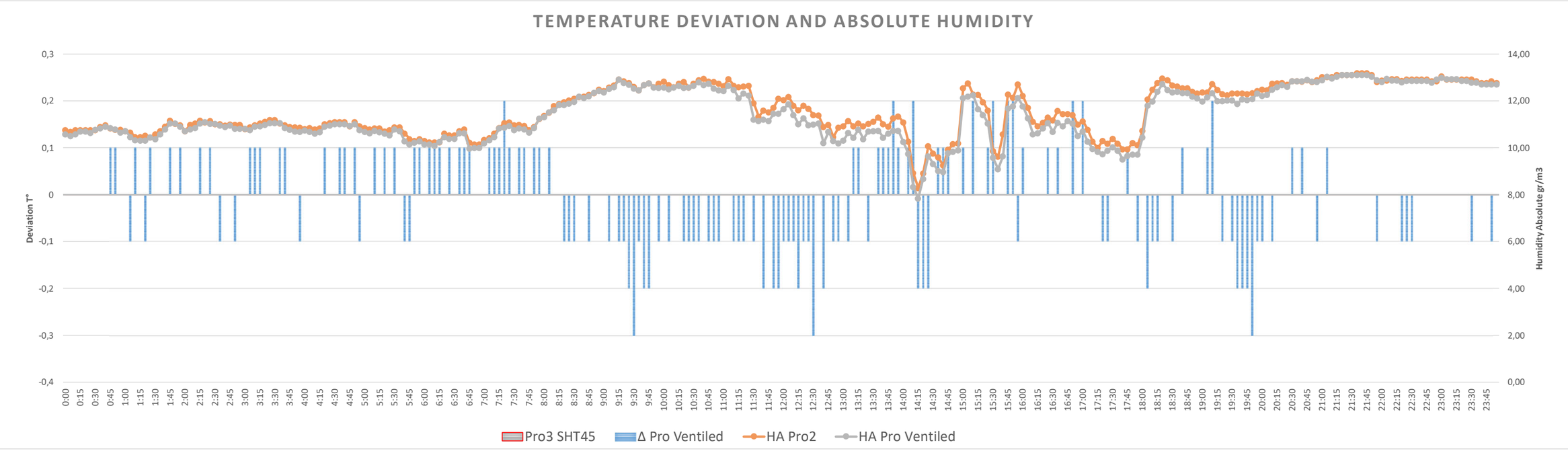

WIND AND GUST
12,0
10,0
8,0
6,0
4,0
2,0
0,0
Wind M/S
WIND
WIND GUST


WIND DIRECTION PER HOUR
360,00
310,00
260,00
210,00
160,00
110,00
60,00
10,00
- 40,00
282,75
225,08
326,92
164,25
299,25
276,08
103,67
59,00
51,00
104,58
104,33
82,67
84,67
224,33
257,83
302,67
320,67
246,00
313,83
256,83
321,00
128,08
126,00
75,92
0h-1h
1h-2h
2h-3h
3h-4h
4h-5h
5h-6h
6h-7h
7h-8h
8h-9h
9h-10h
10h-11h
11h-12h
12h-13h
13h-14h
14h-15h
15h-16h
16h-17h
17h-18h
18h-19h
19h-20h
20h-21h
21h-22h
22h-23h
23h-24h
Dir Wind


AVERAGE HOURLY WIND DIRECTION OVER 24H
N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
0
0
0
1
2
2
3
2
1
0
0
1
2
3
3
Rose des vents


AVERAGE HOURLY WIND AND GUST OVER 24H
0h-1h
1h-2h
2h-3h
3h-4h
4h-5h
5h-6h
6h-7h
7h-8h
8h-9h
9h-10h
10h-11h
11h-12h
12h-13h
13h-14h
14h-15h
15h-16h
16h-17h
17h-18h
18h-19h
19h-20h
20h-21h
21h-22h
22h-23h
23h-24h
0
1
2
3
4
5
6
WIND GUST
WIND


TEMPERATURE AND ABSOLUTE HUMIDITY DEVIATION
Pro3 SHT45
Δ Pro Ventiled
Δ HA Pro Ventiled


TEMPERATURE DEVIATION AND ABSOLUTE HUMIDITY
Deviation T°
Humidity Absolute gr/m3
Pro3 SHT45
Δ Pro Ventiled
HA Pro2
HA Pro Ventiled