



H. Jessen Jürgensen MPXPro Parameter for CO2 application

Nedenstående parameters skal der tages stilling til før MPX-controller samt CUBO2 er klar til brug.

Code	Description	Value	Min	Max	UoM	Type
/4	Virtual probe composition 0 = Outlet probe Sm 100 = Intake probe Sr	0	0	100	%	C
/P1	Type of probe, group 1 (S1, S2, S3) 0 = NTC Standard Range -50T90 °C 1 = PTC Standard Range -50T150 C 2 = PT1000 Standard Range -50T150 °C 3 = NTC L243 Standard Range -50T90 °C	0	0	3	-	A
/P2	Type of probe, group 2 (S4, S5) 0 = NTC Standard Range -50T90 °C 1 = PTC Standard Range -50T150 C 2 = PT1000 Standard Range -50T150 °C 3 = NTC L243 Standard Range -50T90 °C	0	0	3	-	A
/P3	Type of probe, group 3 (S6) 0 = NTC Standard Range -50T90 °C 1 = PTC Standard Range -50T150 C 2 = PT1000 Standard Range -50T150 °C 3 = NTC L243 Standard Range -50T90 C 4 = 0 to 5V ratiometric probe	0	0	4	-	A
/Fb						
/FA	Assign outlet temperature probe (Sm) 0 = Function disabled 1 = Probe S1 2 = Probe S2 3 = Probe S3 4 = Probe S4 5 = Probe S5 6 = Probe S6 7 = Probe S7 8 = Serial probe S8 9 = Serial probe S9 10 = Serial probe S10 11 = Serial probe S11	1	0	11	-	C
/Fb	Assign defrost temperature probe (Sd) - See /FA	2	0	11	-	C
/Fc	Assign intake temperature probe (Sr) - See /FA	3	0	11	-	C
/Fd	Assign superheated gas temperature probe (tGS) - See /FA	0	0	11	-	A
/FE	Assign saturated evaporation pressure/temperature probe (PEu/tEu) - See /FA	0	0	11	-	A
/U6	Maximum value of probe 6	9,3	/L6	160 if /5=0 999 if /5=1	barg/ RH%	A
/L6	Minimum value of probe 6	-1	-20 if /5=0 -90 if /5=1	/U6	barg/ RH%	A
OFF	ON/OFF control 0 = ON; 1 = OFF;	0	0	1	-	A
St	Set point	0	r1	r2	°C/°F	F
rd	Set point differential St	2	0.1	20	°C/°F	F



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d0	Type of defrost 0 = heater by temperature 1 = hot gas by temperature 2 = heater by time 4 = heater by time with temp. control 5 = multiplexed hot gas by temperature 6 = multiplexed hot gas by time 3 = hot gas by time	0	0	6	-	C	
dI	Maximum interval between consecutive defrosts	8	0	240	hour	C	
dt1	End defrost temperature (read by Sd)	8	-50.0	50.0	°C/°F	F	
dP1	Maximum defrost duration	45	1	240	min	F	
d6	Display on terminals during defrost 0 = temperature alternating with 'dEF' 1 = freeze display 2 = 'dEF'	1	0	2	-	C	
d8	Bypass high temperature alarm time after defrost	30	1	240	min	C	
AA	Assign probe for high (AH) and low (AL) temperature alarms	1	1	14	-	F	
	1 = control (Sreg)						8 = auxiliary defrost (Sd2)
	2 = virtual (Sv)						9 = auxiliary (Saux)
	3 = outlet (Sm)						10 = auxiliary 2 (Saux2)
	4 = defrost (Sd)						11 = ambient temperature (SA)
	5 = intake (Sr)						12 = ambient humidity (SU)
	6 = superheated gas (tGS)						13 = glass temperature (Svt)
	7 = saturated evaporation temp. (tEu)						14 = dewpoint (SdP)
A1	Alarm thresholds (AL, AH) relative to the set point St or absolute 0 = relative; 1 = absolute	0	0	1	-	F	
AL	Low temperature alarm threshold	4	-50.0	50.0	°C/°F	F	
AH	High temperature alarm threshold	10	-50.0	50.0	°C/°F	F	
Ad	Delay time for high and low temperature alarms (AH, AL)	120	0	240	min	F	
A4	Configure digital input DI1 on S4	0	0	14	-	C	
	0 = input not active						7 = curtain switch
	1 = immediate external alarm						8 = start/stop continuous cycle
	2 = delayed external alarm						9 = monitor input status
	3 = enable defrost						10 = timed digital input
	4 = start defrost						11 = switch in Standby status
	5 = door switch with compressor and evaporator fans OFF						12 = switch in Clean status
	6 = remote ON/OFF						13 = change working set
	14 = door switch without stopping control						
Add	High temperature alarm bypass time for door open	30	1	240	min	C	
F0	Evaporator fan management 0 = always on 1 = activation based on Sd - Sv (or Sd - Sm in double thermostat) 2 = activation based on Sd	0	0	2	-	C	
F1	Evaporator fan activation threshold (only if F0=1 or 2)	-5.0	-50.0	50.0	°C/°F	F	
F2	Evaporator fans with compressor off 0 = see F0; 1 = always off	1	0	1	-	C	
F3	Evaporator fans during defrost 0 = on; 1 = off	1	0	1	-	C	
Fd	Post dripping time after defrost (fans off with control active)	1	0	15	min	C	
P1	Electronic valve 0 = not present; 1 = PWM valves; 2 = CARELE2V valve 3 = 0-10V modulation for refrigerant control 4 = PWM valve modulation for refrigerant control 5 = Carel E2V valve modulation for refrigerant control	0	0	5	-	A	
P3	Superheat setpoint (Adjust to lower value after some days of running 6-10K depending on the application)	13.0	0.0	25.0	K	F	
P4	Proportional gain	20.0	0.0	100.0	-	A	
P5	Integration time 0 = function disabled	400	0	900	s	A	
P6	Derivative time 0 = function disabled	5.0	0.0	100.0	s	A	
PH	Type of refrigerant, 11 = R744	11	0	25	-	A	
PM1	MOP: maximum saturated evaporation temperature threshold	50.0	-50.0	50.0	°C/°F	A	
PM3	MOP: alarm delay 0 = function disabled	0	0	999	s	A	
PSM	Smooth Lines - Enable function	0	0	1	-	A	
PLt	Smooth Lines - Offset to stop control below set point	2.0	0.0	10.0	°C/°F	A	
PHS	Smooth Lines - Maximum superheat offset	20.0	0.0	50.0	K	A	

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PSI	Control integral time (Smooth Lines or liquid control)	120	0	800	s	A
PSP	Control prop. coefficient (Smooth Lines or liquid control)	5	0	100	-	A
PSd	Control derivative time (Smooth Lines or liquid control)	0	0	100	s	NV
FSt	Smooth Lines - Superheat set averaging time	10	10	100	min	A
TSH	Smooth Lines - Superheat threshold	0.1	0.0	10	-	A
In	Type of unit 0 = Slave; 1 = Master	1	0	1	-	C
Sn	Number of slaves in the local network 0 = no Slave	0	0	5	-	C
H0	Serial or Master Slave network address	199	0	199	-	C

Yderligere er det vigtigt at kontrollere at følere og transmitter er retvisende.

Sd1	Defrost probe	-	-	-	°C/°F	F
tGS	Superheated gas temperature	-	-	-	°C/°F	F
tEu	Saturated evaporation temperature	-	-	-	°C/°F	F
Sr/Sm	Look at the Display	-	-	-	°C/°F	-

Såfremt der ikke er taget stilling til ovenstående, kan dette i værste fald forårsage havari.

Parametrene er kun guideline, det kan tænkes andre parametre er nødvendige i Jeres installation.

Manualer og fortrådnings diagram kan findes på www.carel.com

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