

CPE 102 - PROFINET PROTOCOL for FC400 Description

FC400 from release SW 1.9.0

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1 PREFACE

CPE 102 is the PROFINET / MODBUS converter for FC family controllers produced by Hyterm.

2 HYSTORY OF DOCUMENT

DATE	REV.	CHANGES
18/07/23	00	Release: This document is based on: • MODBUS Protocol FC400 Rev01 of 08/05/23
03/02/25	01	Position vs Byte nr

3 CONTACT ADDRESS OF THE MANUFACTURER AND TECHNICAL SUPPORT

In case of information requests or technical issues the buyer can contact HYTERM at the following address:

HYTERM S.r.l.

Viale del lavoro, 18 – 25045 Castegnato (BS)

Site: www.hyterm.com

E-mail: info@hyterm.com

Technical Support:

E-mail: support@hyterm.com

Teams: support@hyterm.com

4 OVERVIEW OF THE POSITIONS

This section contains information on numeric and non-numeric data exchanged with FC400.

4.1 ONLY READ DATA OF FC400

This section contains the information on numeric data reading only.

ATTENTION!

POLL TIME is the data update time between the regulator and the converter.

4.1.1 STATUS PARAMETERS

BYTE NR	POLL TIME	DESCRIPTION
0	1.000s	Device Identification
2	1.000s	Release FW
4	1s	State of device
6	1s	Number of running fans
8	1s	Total power absorbed by EC Motors
10	1s	Rotation speed of EC Motors
12	1s	Set-Point value in use
14	1s	Input 1 value
16	1s	Input 2 value
18	1s	Input 3 value
20	1s	Input 4 value
22	1s	Input 5 value
24	1s	Input 6 value
26	1s	State of digital inputs
28	1s	Output Value AO1 0-10V
30	1s	Output Value AO2 0-10V
32	1s	State of digital outputs
34	1s	CU Value (Percentage of fans speed command)
36	1s	Warning 1
38	1s	Warning 2
40	1s	Warning 3
42	1s	Error code 1
44	1s	Error code 2
46	1s	Error code 3
48	1s	Error code 4
212	1s	Diagnostica MODBUS

4.2 READ & WRITE DATA OF FC400

This section contains information on data with the possibility both of reading and writing numeric numbers contained in the position.

ATTENTION!

POLL TIME is the data update time between the regulator and the converter.

4.2.1 WORKING PARAMETERS

BYTE NR	POLL TIME	DESCRIPTION
50	1s	Set Point 1
52	1s	Set Point 2
54	1s	Proportional band
56	1s	Minimum limit
58	1s	Maximum limit
60	1s	MODBUS slave mode speed set point
62	5s	PID Proportional component weight
64	5s	PID Integral component weight
66	5s	PID Derivative Component weight
68	5s	PID Integration time
70	1.000s	Pressure Scale

4.2.2 DIGITAL INPUTS

BYTE NR	POLL TIME	DESCRIPTION
72	1s	Enabling control functions
74	1s	Digital Input 1
76	1s	Digital Input 2
78	1s	Digital Input 3
80	1s	Digital Input 4
82	1s	Digital Input 5
84	1s	Digital Input 6
86	1s	Digital Input 7

4.2.3 SPECIAL FUNCTIONS

BYTE NR	POLL TIME	DESCRIPTION
Description: EMERGENCY SPEED		
88	5s	Enable
90	5s	Rotation speed in EMERGENCY mode
92	5s	Fan start delay
Description: SHEDDING		
94	5s	Enable
96	5s	Number of start attempts
Description: NIGHT		
98	5s	Enable
100	5s	Time of activation of the function
102	5s	Time of deactivation of the function
104	5s	Rotation speed in NIGHT mode
Description: SPEED JUMP		
106	5s	Enable
108	5s	Lower limit jump 1
110	5s	Upper limit jump 1
112	5s	Lower limit jump 2
114	5s	Upper limit jump 2
Description: UNLOCK		
116	5s	Enable
118	5s	Fan rotation time
120	5s	Fan sleep time
122	5s	Rotation speed in UNLOCK mode
Description: CLEAN		
124	5s	Enable
126	5s	Activation frequency
128	5s	Cleaning start time
130	5s	Duration of the cleaning cycle
132	5s	Rotation speed during the cleaning cycle
Description: WASH		
134	5s	Enable
136	5s	Activation frequency
138	5s	Washing start time
140	5s	Cooling duration
142	5s	Duration of the washing cycle
144	5s	Rotation speed during the washing cycle
Description: ECO		
146	5s	Enable
148	5s	Minimum waiting time before the next activation/deactivation
150	5s	Group insertion speed
152	5s	Group deactivation speed
154	5s	Kick Speed

Description: SP SWITCH		
156	5s	Enable
158	5s	Ambient temperature switch SP
160	5s	Hysteresis
Description: SP ADJUST		
162	5s	Enable
164	5s	Min SP
166	5s	Max SP
168	5s	Offset
170	5s	Refrigerant
Description: FLOATING SETPOINT		
172	5s	Enable
174	5s	SP regulation signal
176	5s	SP Minimum value
178	5s	SP Maximum value
Description: SLAVE SAFETY		
180	5s	Enable
182	5s	Regulation signal
Description: FEEDBACK		
184	5s	Enable
186	5s	Activation value
Description: BOOST		
188	5s	Enable
190	5s	Activation value
192	5s	Hysteresis
Description: CUTOFF		
194	5s	Enable
196	5s	Activation value
198	5s	Hysteresis
Description: THERMOSTAT		
200	5s	Enable
202	5s	Activation value
204	5s	Hysteresis
206	5s	Deactivation of the function during regulation
Description: THRESHOLD		
208	5s	Enable
210	5s	Activation value

5 DESCRIPTION OF THE DATA OF FC400

List of the position with detailed description.

5.1 ONLY READ POSITIONS

5.1.1 STATUS PARAMETERS

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
0	Description: Device Identification				
	0 = ND				
	3 = FC400 CIECO				
	4 = FC400 CIECO ETHERNET				
	5 = FC400 UI				
	6 = FC400 UI ETHERNET				
2	Description: Release FW				
	Byte 1 (less significant) = Build				
	Byte 2 (more significant) = First 4 bit Minor				
	Latest 4 bit (Major)				
4	Description: State of device				
	0 = STARTING				
	1 = STOP				
	2 = RUNNING				
6	Description: Number of running fans				
	nr				
8	Description: Total power absorbed by EC Motors				
	W				
10	Description: Rotation speed of EC Motors				
	RPM				
12	Description: State of device				
	°C	-15.0	90.0	0.0	0,0
	°F	5.0	194.0	0.0	0,0
	Bar	0.0	45.0	0.0	0,0
	PSI	0.0	652,6	0.0	0,0

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
14	Description: Input 1 value				
	Value	-32768	32767	0	0,0
16	Description: Input 2 value				
	Value	-32768	32767	0	0,0
18	Description: Input 3 value				
	Value	-32768	32767	0	0,0
20	Description: Input 4 value				
	Value	-32768	32767	0	0,0
22	Description: Input 5 value				
	Value	-32768	32767	0	0,0
24	Description: Input 6 value				
	Value	-32768	32767	0	0,0
26	Description: State of digital inputs				
	Bit 0 = DI1 Bit 1 = DI2 Bit 2 = DI3 Bit 3 = DI4 Bit 4 = DI5 Bit 5 = DI6 Bit 6 = DI7	0	248	0	0
28	Description: Output Value AO1 0-10V				
	Volt (0-10V)	0	1000	0	0,00
30	Description: Output Value AO2 0-10V				
	Volt (0-10V)	0	1000	0	0,00
32	Description: State of digital outputs				
	Bit 0 = DO1 Bit 1 = DO2 Bit 2 = DO3 Bit 3 = DO4	0	12	0	0
34	Description: CU value (Percentage of fans command)				
	%	0	100	0	0

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
36	Description: Warning code 1				
	Bit 0 = DATALOGGER Bit 1 = FAN (General notification)	0	65535	0	0
38	Description: Warning code 2				
	Bit 0 = FAN_1 Bit 1 = FAN_2 Bit 2 = FAN_3 Bit 3 = FAN_4 Bit 4 = FAN_5 Bit 5 = FAN_6 Bit 6 = FAN_7 Bit 7 = FAN_8 Bit 8 = FAN_9 Bit 9 = FAN_10 Bit 10 = FAN_11 Bit 11 = FAN_12 Bit 12 = FAN_13 Bit 13 = FAN_14 Bit 14 = FAN_15 Bit 15 = FAN_16	0	65535	0	0
40	Description: Warning code 3				
	Bit 0 = FAN_17 Bit 1 = FAN_18 Bit 2 = FAN_19 Bit 3 = FAN_20 Bit 4 = FAN_21 Bit 5 = FAN_22	0	65535	0	0

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
42	Description: Error code 1				
	Bit 0 = TK DIGITAL INPUT (Function ALARM) Bit 1 = ALL FAN Bit 2 = ANALOG Input Bit 3 = SLAVE SAFETY Bit 4 = Reserved Bit 5 = ADIABATIC COMMUNICATION Bit 6 = COMMUNICATION REMOTE CONTROL Bit 7 = OVER HEAT (board) Bit 8 = UNDER HEAT (board) Bit 9 = POWER	0	65535	0	0
44	Description: Error code 2				
	Bit 0 = FAN_1 Bit 1 = FAN_2 Bit 2 = FAN_3 Bit 3 = FAN_4 Bit 4 = FAN_5 Bit 5 = FAN_6 Bit 6 = FAN_7 Bit 7 = FAN_8 Bit 8 = FAN_9 Bit 9 = FAN_10 Bit 10 = FAN_11 Bit 11 = FAN_12 Bit 12 = FAN_13 Bit 13 = FAN_14 Bit 14 = FAN_15 Bit 15 = FAN_16	0	65535	0	0
46	Description: Error code 3				
	Bit 0 = FAN_17 Bit 1 = FAN_18 Bit 2 = FAN_19 Bit 3 = FAN_20 Bit 4 = FAN_21 Bit 5 = FAN_22	0	65535	0	0
48	Description: Error code 4				
	Bit 0 = ANALOG INPUT 1 Bit 1 = ANALOG INPUT 2 Bit 2 = ANALOG INPUT 3 Bit 3 = ANALOG INPUT 4 Bit 4 = ANALOG INPUT 5 Bit 5 = ANALOG INPUT 6	0	65535	0	0

5.1.2 MODBUS SIDE DIAGNOSTICS

This byte signals a malfunction in the communication side (the regulator doesn't respond to CPE103 queries).

ATTENTION!

When 212 value is greater than 0 wait 60s before triggering an alarm (Communication can automatically re-establish itself within 60s).

BYTE NR	VALUES	MIN	MAX	DEFAULT	ACCESS
Description: FC400 side diagnostics					
212	212 = 0 → COMMUNICATION OK → FC400 OK 212 > 0 → COMMUNICATION KO → FC400 KO	0	255	0	R

5.2 READ & WRITE POSITIONS

5.2.1 WORKING PARAMETERS

ATTENTION!

All data in this section (write mode) are saved in memory of the regulator, write the desired value and then the AUTOSAVE function will save it in memory permanently.

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
50	Description: Set Point 1				
	°C	-15.0	90.0	35.0	0,0
	°F	5.0	194.0	95.0	0,0
	Bar	0.0	60.0	30.0	0,0
	PSI	0.0	870,2	435,1	0,0
52	Description: Set Point 2				
	°C	-15.0	90.0	25.0	0,0
	°F	5.0	194.0	77.0	0,0
	Bar	0.0	60.0	30.0	0,0
	PSI	0.0	870,2	435,1	0,0
54	Description: Proportional band				
	°C	2.0	60.0	7,5	0,0
	°F	35.0	140.0	45,5	0,0
	Bar (PSCALE<=16)	0.0	45.0	2,4	0,0
	Bar (16<PSCALE<45)	0.0	45.0	3,5	0,0
	Bar (PSCALE>=45)	0.0	45.0	5,2	0,0
	PSI (PSCALE<=232,1)	0.0	652,6	34,8	0,0
	PSI (232,1<PSCALE<652,6)	0.0	652,6	50,7	0,0
	PSI (PSCALE>=652,6)	0.0	652,6	75,4	0,0
56	Description: Minimum limit				
	%	0	100	0	0
58	Description: Maximum limit				
	%	0	100	100	0
60	Description: MODBUS slave mode speed set point				
		0	65535	0	0
62	Description: PID Proportional component weight				
	%	0	100	5	0
64	Description: PID Integral component weight				
	%	0	100	5	0

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
66	Description: PID Derivative Component weight				
	%	0	100	5	0
68	Description: PID Integration time				
	s	1	10	1	0
70	Description: Pressure Scale				
	Bar: 0 = 15,0 1 = 16,0 2 = 25,0 3 = 30,0 4 = 40,0 5 = 45,0 6 = 50,0 7 = 60,0	0	7	3	0
	PSI: 0 = 217,5 1 = 232,1 2 = 362,5 3 = 435,1 4 = 580,1 5 = 652,6 6 = 725,2 7 = 870,2	0	7	3	0

5.2.2 DIGITAL INPUTS

ATTENTION!

Enabling control functions (Byte nr 90) is saved in memory of the regulator, write the desired value and then the AUTOSAVE function will save it in memory permanently.

ATTENTION!

Digital Input 1 - 7 (Byte 92, 94, 96, 98, 100, 102, 104) they are not saved in memory, write the desired value continuously over time, if the regulator is turned off the set values will be lost.

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
72	Description: Enabling control functions				
	0 = Local (OFF) 1 = Remote (ON)	0	1	0	0
74	Description: Digital Input 1				
	0 = OFF 1 = ON	0	1	0	0
76	Description: Digital Input 2				
	0 = OFF 1 = ON	0	1	0	0
78	Description: Digital Input 3				
	0 = OFF 1 = ON	0	1	0	0
80	Description: Digital Input 4				
	0 = OFF 1 = ON	0	1	0	0
82	Description: Digital Input 5				
	0 = OFF 1 = ON	0	1	0	0
84	Description: Digital Input 6				
	0 = OFF 1 = ON	0	1	0	0
86	Description: Digital Input 7				
	0 = OFF 1 = ON	0	1	0	0

5.2.3 SPECIAL FUNCTIONS

ATTENTION!

All data in this section (write mode) are saved in memory of the regulator, write the desired value and then the AUTOSAVE function will save it in memory permanently.

5.2.3.1 EMERGENCY SPEED

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
88	Description: Enable				
	0 = OFF 1 = ON	0	1	0	0
90	Description: Rotation speed in EMERGENCY mode				
	%	10	100	100	0
92	Description: Fan start delay				
	sec	1	60	5	0

5.2.3.2 SHEDDING

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
94	Description: Enable				
	0 = OFF 1 = ON	0	1	0	0
96	Description: Number of start attempts				
	nr	1	200	20	0

5.2.3.3 NIGHT

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
98	Description: Enable				
	0 = OFF 1 = ON (Digital Input) 2 = ON (Automatic Mode)	0	2	1	0
100	Description: Time of activation of the function (Enable = 2)				
	h:min	01:00	23:59	23:00	0
102	Description: Time of deactivation of the function (Enable = 2)				
	h:min	01:00	23:59	6:00	0
104	Description: Rotation speed in NIGHT mode				
	%	1	100	70	0

5.2.3.4 SPEED JUMP

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
106	Description: Enable				
	0 = OFF 1 = ON	0	1	0	0
108	Description: Lower limit jump 1				
	%	0	100	0	0
110	Description: Upper limit jump 1				
	%	0	100	0	0
112	Description: Lower limit jump 2				
	%	0	100	0	0
114	Description: Upper limit jump 2				
	%	0	100	0	0

5.2.3.5 UNLOCK

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
116	Description: Enable				
	0 = OFF 1 = ON (Digital Input) 2 = ON (Automatic Mode)	0	2	0	0
118	Description: Fan rotation time				
	min	1	120	15	0
120	Description: Fan sleep time				
	min	1	43000	10080	0
122	Description: Rotation speed in UNLOCK mode				
	%	10	100	100	0

5.2.3.6 CLEAN

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
124	Description: Enable				
	0 = OFF 1 = ON (Digital Input) 2 = ON (Automatic Mode)	0	2	0	0
126	Description: Activation frequency				
	day	1	30	10	0

128	Description: Cleaning start time				
	h:min	01:00	23:59	23:00	0
130	Description: Duration of the cleaning cycle				
	min	1	60	15	0
132	Description: Rotation speed during the cleaning cycle				
	%	1	100	100	0

5.2.3.7 WASH

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
134	Description: Enable				
	0 = OFF 1 = ON	0	1	0	0
136	Description: Activation frequency				
	day	1	30	10	0
138	Description: Washing start time				
	h:min	01:00	23:59	23:00	0
140	Description: Cooling duration				
	min	1	60	5	0
142	Description: Duration of the washing cycle				
	min	1	60	15	0
144	Description: Rotation speed during the washing cycle				
	%	1	100	100	0

5.2.3.8 ECO

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
146	Description: Enable				
	0 = OFF 1 = ON	0	1	0	0
148	Description: Minimum waiting time before the next activation/deactivation				
	sec	3	90	10	0
150	Description: Group insertion speed				
	%	10	50	25	0
152	Description: Group deactivation speed				
	%	10	50	15	0

154	Description: Kick Speed				
	%	1	100	80	0

5.2.3.9 SP SWITCH

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
156	Description: Enable				
	0 = OFF 1 = ON	0	1	0	0
158	Description: Ambient temperature switch SP				
	°C	-10	60	30	0,0
	°F	14.0	140.0	86.0	0,0
160	Description: Hysteresis				
	°C	3.0	20.0	5.0	0,0
	°F	37,4	68.0	41.0	0,0

5.2.3.10 SP ADJUST

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
162	Description: Enable				
	0 = OFF 1 = ON	0	1	0	0
164	Description: Min SP				
	°C	0.0	90.0	20.0	0,0
	°F	32.0	194.0	68.0	0,0
166	Description: Max SP				
	°C	0.0	90.0	40.0	0,0
	°F	32.0	194.0	104.0	0,0
168	Description: Offset				
	°C	1.0	20.0	5.0	0,0
	°F	33,8	68.0	41.0	0,0
170	Description: Refrigerant				
	18=R404A	0	33	18	0

5.2.3.11 FLOATING SETPOINT

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
172	Description: Enable				
	0 = OFF 1 = ON	0	1	0	0
174	Description: SP regulation signal				
	0 = 1-10V 1 = 4-20mA	0	1	0	0
176	Description: SP Minimum value				
	°C	-15.0	90.0	20.0	0,0
	°F	5.0	194.0	68.0	0,0
	Bar	0.0	60.0	20.0	0,0
	PSI	0.0	870,2	290.0	0,0
178	Description: SP Maximum value				
	°C	-15.0	90.0	40.0	0,0
	°F	5.0	194.0	104.0	0,0
	Bar	0.0	60.0	40.0	0,0
	PSI	0.0	870,2	580.0	0,0

5.2.3.12 SLAVE SAFETY

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
180	Description: Enable				
	0 = OFF 1 = ON	0	1	0	0
182	Description: Regulation signal				
	0 = MODBUS 1 = 1-10V 2 = 4-20mA	0	2	2	0

5.2.3.13 FEEDBACK

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
184	Description: Enable				
	0 = OFF 1 = ON	0	1	0	0
186	Description: Activation value				
	%	1	20	10	0

5.2.3.14 BOOST

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
188	Description: Enable				
	0 = OFF 1 = ON	0	1	0	0
190	Description: Activation value Boost				
	°C	-15.0	120.0	100.0	0,0
	°F	5.0	248.0	212.0	0,0
	Bar	0.0	60.0	45.0	0,0
	PSI	0.0	870,2	652,6	0,0
192	Description: Hysteresis				
	°C	1.0	30.0	3.0	0,0
	°F	33.8	86.0	37.4	0,0
	Bar	0,1	15.0	1.0	0,0
	PSI	1.4	217,5	14.5	0,0

5.2.3.15 CUTOFF

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
194	Description: Enable				
	0 = OFF 1 = ON	0	1	0	0
196	Description: Activation value Cutoff				
	°C	-25.0	80.0	20.0	0,0
	°F	-13.0	176.0	68.0	0,0
	Bar	0	60.0	0.0	0,0
	PSI	0	870,2	0.0	0,0

198	Description: Hysteresis				
	°C	1,0	30,0	3,0	0,0
	°F	30	86.0	30	0,0
	Bar	0,1	15.0	0,1	0,0
	PSI	1,4	217,5	1,4	0,0

5.2.3.16 THERMOSTAT

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
200	Description: Enable				
	0 = OFF 1 = ON	0	1	0	0
202	Description: Activation value				
	°C	-35.0	80.0	15.0	0,0
	°F	-31.0	176.0	59.0	0,0
204	Description: Hysteresis				
	°C	1.0	30.0	5.0	0,0
	°F	33.8	86.0	41.0	0,0
206	Description: Deactivation of the function during regulation				
	0 = Function enabled during regulation 1 = Function disabled during regulation	0	1	0	0

5.2.3.17 THRESHOLD

BYTE NR	VALUES	MIN	MAX	DEFAULT	DECIMALS
208	Description: Enable				
	0 = OFF 1 = ON	0	1	0	0
210	Description: Activation value				
	%	1	100	30	0