

User Manual

Pressure •Temperature •Humidity •Air Velocity •Air Flow

New

CE

Flush-mount transmitter **CPE 300**









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33	1. Prerequisite

1.a - Working principle

Using remote control and optional Modbus configuration, you can change units of measurement, set setpoints and relays...

Principle: the configuration options are accessed via **folders and sub-folders** (similar to Windows[®]). Access is made via a **numerical code** (full details in this manual).





Meaning of the keys

- To increment a value or a level
- To decrement a value or a level
- To validate an input
- **To cancel an input or to return to the previous step**

Channel selection

With this selector, you can swap the transmission channel so that it matchs with the transmitter reception channel. See page 6 to configure the transmitter reception channel.

1.b - Output signal selection

Voltage or Current ?

The Class 300 can output either a voltage or a current signal.



With the on-off switch located on the left top of the transmitter (when open), you can choose analogue output 0-10V (voltage) or 4-20 mA (current)



4-20 mA

^{Up} 0-10 V

2.a - Configuration parameters

- Data bits
 8 bits
- Parity None
- Flow control
- Transmitter addressing between 1 and 255

default address "0" for single ended bus configuration To change the addressing, see page 6.

2.b - Functions

Register reading	Function 03
Register writing	Function 16
Communication loop test	Function 08

2.c - Access codes to Registers

- Alarms status Modbus code : 1436
 Ex. The value sent by the transmitter is 5
 Alarm condition 1
 and relay 1 energized



- Values Modbus code : 1438 (channel 1) 1442 (value 1 for the external transmitter) 1446 (value 2 for the external transmitter) Ex. the value sent by the transmitter is 623
- Values formatting Modbus code :

1440 (channel 1) 1444 (value 1 for the external transmitter) 1448 (value 2 for the external transmitter)

	11!4																	
	Units	ot n	neasurement	b31	••••	b12	b11	b10	b9	b8	b7	b6	b5	b4	b3	b2	b1	b0
1	m/s	12	mmH ₂ O				0	0	0	1	0	0	0	0	1	1	0	0
2	fpm	13	inWg								Un	it of	meas	surer	nent	(see	cha	art)
3	m3/h	14	Кра					Nr	of d	igits	afte	r the	con	nma	1			
4	L/s	15	mmHg					Valu	10 6	an /()->+	1->)	٦				
5	cfm	16	mbar					van	16 31	gii (t	, - ~+,	1-21)					
6	m3/s	17	g/kg (absolute humid. p)	Ex. T	The f	orma	attinc	ı disp	lave	d is i	268.							
7	°C	18	°C (dew temp. Td)			U	Init o	fme	asur	emei	nt =>	12 (see (chart)			
8	°F	19	°F (dew temp. Td)			F	igure	e(s) a	fter	the c	omn	na =>	• 1					
9	%RH	20	°C (humid temp. Tw)			S	ign =	=> pc	sitiv	е								
10	PSI	21	°F (humid temp. Tw)			lf tho	volu	0 00		radi	0.001	ial ta	622			-		
11	Pa	22	KJ/Kg (Enthalpy i)		1	n ne	Ré:	sulta	t =>	62.3	а еці С тт	ы Ю Н.О	023	•				

2.c - Access codes to Registers (sequel)

Serial number of SPI sensing element
Modbus code: 1402



The first "0" blinks, which means that this column is activated and you can

This step is COMPULSORY for each configuration.

To access the transmitter functions, and for safety, you have to first enter a safety code.

· Please check that the transmitter is powered on.

If the transmitter displays an error code, please see "Errors Code" section on page 22

enter data from the keypad.

Step 2 Enter the CODE "0101? with the keypad and validate with @ Step 3 This screen appears: starting display.

File configuration number :

The transmitter includes 5 folders maximum :

- 100 • 400 • 200 • 500 • 300
 - Ex. in the folder 400, you can configure the alarms
 - and relays. See page 12.

To select your configuration folder, press \oplus to increment 100 or press \bigcirc to decrement 100.

Once the folder is selected, press or to validate.



On the top left of each page of this manual, you can find a reminder of the configuration folder where the function is available. ") FYOO

- The code must be entered from left to right.
- To increment a value or a level, press 🕀 To **decrement** a value or a level, press Θ To validate a value (level) or to validate the code, press (w)
- To return to the previous status or to cancel, press (5)
 - This screen confirms that the code was correctly entered, and that you can configure the transmitter. If the code was wrongly entered, the transmitter initializes and returns to the

Step 4 Configuration folder selection



Step 1 Press @ to get this screen





10 E. H B B

4.a - Transmitter channel for infrared remote control



You can change the channel number for receiving the signal from the infrared remote control.

NOTE By default, the channel number is 0.



Go into the configuration mode (see page 5). The folder number displayed corresponds to the last configuration folder used.



Select the folder "100" and validate with .

Select the sub-folder "100" and validate with . The cursor > goes to the line of available choices.





With O and O keys, select the channel number (from 00 to 09). Validate with (ок)

- The cursor > returns to sub-folders line.
- press twice is to return to reading mode
- press once (to select another folder.
- with \oplus and \bigcirc keys, you can choose another sub-folder from the folder 100

4.b - Slave addressing (Modbus)

Step 1	<u> </u> _		Π	F
	L.	Ц.	Ш.	

Go into configuration mode (see page 5). The folder number displayed



corresponds to the last configuration folder used.

Select the folder "100" and validate with .

Select the sub-folder "103" and validate with . The cursor > goes to available choices.





With \oplus and \odot keys, set the slave addressing number (from 1 to 255). Validate with 🔍



The cursor > goes to sub-folders line.

- press twice is to return to reading mode.
- press once (to return to another folder selection.
- with and \bigcirc keys to choose another sub-folder from the folder 100.



Go into configuration mode (see page 5). The folder number displayed corresponds to the last configuration folder used.

Select the folder "**200**" and validate with \circledast . The cursor > goes to choices line.



Step		
3	西. 西. 四. 四.	

00	Pa
01	mmH ₂ O
02	inWg
03	mbar





The cursor > returns to sub-folders line.

- press twice 🐵 to return to reading mode.
- press once (to return to another folder selection.
- with \oplus and Θ keys to choose another sub-folder from the folder 200.



6. Analogue output management

6.a - Output diagnostics

With this function, you can check with a multimeter (or a regulator/display, or a PLC/BMS) if the transmitter outputs are working properly. The transmitter generates a current (between 4 and 20mA) or a voltage (between 0 and 10V).

6.a.1 - Multimeter connection configuration

Before carrying out the output diagnostics, all connections and configurations of the transmitter must be enabled, to avoid any damage on the transmitter and the multimeter!



10 E.B.B.B

6. Analogue output management

6.a.2 - Output diagnostics

Once the connection of the transmitter to the multimeter (or regulator or PLC/BMS is complete, (see page 8), you can carry out the analogue output diagnostics on several check points.





Go into configuration mode (see page 5). The folder number displayed corresponds to the last configuration folder used.

Select the folder "**300**" and validate twice with O. The cursor > goes to available choices.



Step		
3	西. 西. 西. 西.	

With $\textcircled{\bullet}$ and \bigcirc keys, select the signal that the transmitter must output (see chart below). Note : no need to validate with $\textcircled{\bullet}$.

	Diagnostic Output
00	0 V
01	5 V
02	10 V
03	4 mA
04	12 mA
05	20 mA

If the deviations are too large (>0,05V or >0,05mA) between the signal issued and the value displayed on the multimeter, we recommend that you return the transmitter to our factory.

The cursor > returns to sub-folders line.

- press twice 📼 to return to reading mode.
- press once 😁 to return to another folder selection.
- with $\textcircled{\bullet}$ and \bigcirc keys to choose another sub-folder from the folder 300.

6. Analogue output management

6.b - Analogue output settings

10 E.B.B.B

With this function, you can modify the measuring range of the transmitter, and you can equate the new limits to the analogue output (0-10V or 4-20mA).

You can enter the measuring range required on your own !

You must enter the values according to the units of measurement selected, not according to the measuring range of the transmitter.

Ex. on a CPE 303 pressure transmitter (0 to \pm 1000 Pa) with a reading in mmH2O, the minimum and maximum ranges must be configured on measuring range of 0 to \pm 102 mmH2O. See conversion chart on following page.



With O and O keys, select the minimum limit value and validate with O. Note : in the left column, you can have either a integer (from 0 to 9) or a negative sign for a negative minimum limit.



Maximum of output

Select sub-folder "**302**" and validate with O. The cursor > returns to the input line.





With O and \bigcirc keys, select the maximum limit value and validate with O. Note : in the left column, you can have either a integer (from 0 to 9) or a negative sign for a negative maximum limit.

A Nous préconisons un delta entre le minimum et le maximum > 5% de l'étendue de mesure



The cursor > goes to sub-folders line.

- press twice 🔤 to return to reading mode.
- press once [⊕] to return to another folder selection.
- with and \boxdot keys you can choose another sub-folder from the folder 300.

NOTE After an analogue output setting, if the unit of measurement is modified (see page 5), you have to reconfigure the outputs according to the new unit of measurement.

6.b.1 - Units of measurement conversion chart

Pressiure

	Pa	mmH2O	inWg	mbar
CPE 301	0 to ±100	0 to ±10,2	0 to ±0,40	0 to ±1,00
CPE 302	0 to ±500	0 to ±51,0	0 to ±2,01	0 to ±5,00
CPE 303	0 to ±1000	0 to ±102,0	0 to ±4,02	0 to ±10,00

10 E.H.B.B

7.a - Activation / Deactivation of BEEP alarm

The beep alarm (audible alarm) is activated when a set point is reached. For more details on the setpoint settings, see page 20.



- The cursor > goes to sub-folders line.
- press twice 🔄 to return to reading mode.
- press once 🗐 to return to another folder selection.
- with and \boxdot keys you can choose another sub-folder from the folder 400.

7.b - Relay security

The relay outputs are by default, in **negative security**: the relay is **energized** when a set point is reached. With the remote control, you can swap the relays in **positive security**: then, the relay is **de-energized** when a set point is reached or during a power outage.

Step 1	6.888
Step 2	E.888
Step 3	
Step 4	

Enter in configuration mode (see page 5). The folder number displayed corresponds to the last configuration folder used.

Select folder "400" and validate with .

Select sub-folder "**401**" and validate with O. The cursor > goes to available choices.



With the keys $\textcircled{\bullet}$ and \boxdot , select $\emph{D1}$ for a **positive** security or \emph{DD} for a **negative** security. Validate with $\textcircled{\bullet}$.

- The cursor > returns to sub-folders line.
- press twice on 🔤 to return to reading mode.
- press once on 🐵 to return to another folder selection.
- with 🔁 and 🔿 keys, you can choose another sub-folder from the folder 400.

7.c - Alarm / relay functions and LED colour codes

7.c.1 - Visual / audible alarms

Class 300 transmitters have 2 visual / audible alarms located in front of the transmitter, allowing to know the condition of the setpoints.



	Alarm LED colour codes					
Green	The alarm function is activated and the set point is not reached]				
Red	The alarm function is activated and the setpoint is reached					
None	The alarm function is not activated					
NOTE	NOTE The red LED appears when the setpoint is reached, taking into account the time-delay and the action type (falling or rising). See page 17 for more details.					
	Audible alarm					
Once the alarm is activated, an alarm sounds whilst the setpoint is reached.						



The BEEP alarm function must be activated to use the audible alarm. See page 12.

7.d - Alarm mode details

7.d.1 - Definitions

Setpoint

The setpoint is a limit which, on being reached and/or exceeded, activates an alarm or energizes a relay (in negative security, see page 14 for more details).

Time-delay

Once the setpoint is reached and/or exceeded, the time-delay postpones the alarm activation (or relay excitation) for a short period (in seconds). Once this period is elapsed, and if the setpoint is still exceeded, then the alarm is activated or the relay is energized (in negative security).

Action type

For alarm activation or relay excitation, you can choose the action type: rising or falling action.

- Rising action: the alarm is activated once the measurement goes over the setpoint
- Falling action: the alarm is activated once the measurement goes below the setpoint

7.d.2 - Available configurations









7.e - Alarm mode selection





Go into configuration mode (see page 5). The folder number displayed corresponds to the last configuration folder used.

Select the folder "400" and validate with \circledast .



406" Alarm 2

m 2 (12) (1410) m 2 (12) (1410) and validate with (16).

Select sub-folder



Step 3 With O and \bigcirc keys, select the code relative to the alarm mode (see chart below). Validate with O.

Code	Mode d'alarme	Schema
00	No alarm	
01	2 setpoints with time-delay (control mode)	N° 1 page 14
02	1 setpoint with time-delay and rising action	N° 2 page 15
03	1 setpoint with time-delay and falling action	N° 3 page 15

The cursor > returns to sub-folders line.

- \bullet press twice ${}^{\textcircled{}_{122}}$ to return to reading mode.
- press once 🗐 to return to another folder selection.
- with \oplus and \ominus keys, you can choose another sub-folder from the folder 400.

7.f - Setpoints and time-delay setting

7.f.1 - Setpoints



Go into configuration mode (see page 5). The folder number displayed corresponds to the last configuration folder used.

Select the folder "400" and validate with .

To configure the **setpoint 1**, select sub-folder





"407" Alarm 2





Relav 2



and validate with 🔍

To configure the **setpoint 2** (alarm in **control mode**, see p17), select sub-folder









and validate with 🔍

Relav 1



With \oplus and \bigcirc keys, select the setpoint value and validate with S. Note : the left column can be either a integer (from 0 to 9) or a negative sign for a negative setpoint.

You must enter values according to the units of measurement selected, not according to the measuring range of the transmitter.

Ex. on a CP 303 pressure transmitter (0 to ±1000 Pa) with a reading in mmH2O, the minimum and maximum ranges must be configured on measuring range of 0 to ±102 mmH2O. See conversion chart on page 11.



- The cursor > returns to sub-folders line.
- press twice 🖾 to return to reading mode.
- press once 🖾 to return to another folder selection.
- with \oplus and \bigcirc keys, you can choose another sub-folder from the folder 400.



If after having set up a setpoint, the unit of measurement is modified (see page 9), then you have to reconfigure the setpoints according to this new unit of measurement.

7.f.2 - Time-delay



Go into configuration mode (see page 5). The folder number displayed corresponds to the last configuration folder used.



Select the folder "400" and validate with .



Step 3 Valider avec B. With D and \boxdot keys, set the required time-delay: from DD to BD seconds. If you do not need the time-delay, enter DD... Validate with B.

Step	
4	西. 西. 四. 四.

- The cursor > returns to sub-folders line.
- press twice 🗐 to return to reading mode.
- press once 🐵 to return to another folder selection.
- with \oplus and \bigcirc keys , you can choose another sub-folder from the folder 400.

8.a - Pressure measurement integration

The integration coefficient makes an average of the measurements: this helps to avoid any excessive variations

and guarantees a stable measurement.

New value displayed = [((10 - Coef.) x N^{ew} Value) + (Coef. x former value)]/10 This value is applicable when the variation is less than +/- (Coef. x 10 Pa)

Example : CPE303 (0-1000 Pa) - First measurement: 120 Pa - New measurement : 125 Pa The pressure source is stable, the user applied a low integration. Integration: 1, maximum variation allowed +/-10Pa. Since the variation is less than 10 Pa, we apply the integration calculation formula. Next measurement displayed ((9 * 125) + (1 * 120))/10 = 124.5 soit 124 Pa. If the new value had been 131 Pa, the next value displayed would have been 100% of the new value, i.e 131 Pa.



Go into configuration mode (see page 5). The folder number displayed corresponds to the last configuration folder used.



Select the folder "500" and validate with .

Sélectionner le sous-dossier "500" et valider avec . Le curseur descend sur la ligne des choix possibles.





you can set the integration value: from DD to DS.

Validate with 🔍

Coefficient 0 : no integration, large variation of the measurement displayed. **Coefficient 9** : maximum integration, more stable measurement display.

Step	
4	西. 西. 四. 四.

- The cursor > returns to sub-folders line.
- press twice 🔤 to return to reading mode.
- press once 😁 to return to another folder selection.
- with and \bigcirc keys , you can choose another sub-folder from the folder 500.

8.b - Time-delay between 2 self-calibrations



Go into configuration mode (see page 5). The folder number displayed corresponds to the last configuration folder used.



Select the folder "500" and validate with . Select the sub-folder "501" and validate with . The cursor > goes to available choices.





With \oplus and \bigcirc keys, you can set the time-delay values between 2 selfcalibrations: from D to SD minutes. Validate with $\textcircled{\label{eq:scalar}{aligned}}$ **Note** : if the value is equal to \hat{U} , the transmitter will not carry out any self-calibration

Step	
4	西.西.四.四.

- The cursor > returns to sub-folder line.
- press twice 🗐 to return to reading mode.
- press once 🖾 to return to another folder selection.
- with ① and ② keys, you can choose another sub-folder from the folder 500



9.a- Activation / deactivation of the RS232 and home bus

CPE 300 transmitters have one RS232 and one RS 485 digital output (Modbus protocol) - optional. With the RS 232, you can display 1 or 2 parameters which are measured by other Class 200 and 300 transmitters, or you can send measurements to be displayed on another Class 300 transmitters.

If you set up your transmitter to send measurements to another transmitter via RS 232, then you will not be able to use the RS 485 digital output anymore (Modbus -



BusRS485 Modbus **active**) or select D to receive data non-another transmitter (non-RS485 Modbus **inactive**). Validate with B



The cursor > returns to sub-folders line.

- press twice 🐵 to return to reading mode.
- press once 📾 to return to another folder selection.
- with and keys, you can choose another sub-folder from the folder 100.

9.b- Serial number display



EBB

Go into configuration mode (see page 5). The folder number displayed corresponds to the last configuration folder used.



Select the folder "100" and validate with B. Select the sub-folder "102"



Step 3 Le numéro de série de l'appareil est affiché à l'écran (en 2 parties alternées). Le curseur retourne sur la ligne des sous-dossiers.

- appuyer 2 fois sur 🔄 pour revenir en mode lecture des valeurs.
- appuyer 1 fois sur 🗐 pour revenir à la sélection d'un autre dossier.
- utiliser \oplus et \bigcirc pour choisir un autre sous-dossier du dossier 100

9.c- Modification of Modbus communication speed



Go into configuration mode (see page 5). The folder number displayed corresponds to the last configuration folder used.



Select the folder "100" and validate with .

Select the sub-folder "104" and validate with .



With O and \bigcirc keys, select a communication speed (see chart below). Validate with O.



00	2400 bauds	03 19200 bauds (speed by default
01	4800 bauds	0 4 38400 bauds
02	9600 bauds	05 115200 bauds



- The cursor > returns to sub-folders line.
- \bullet press twice $\ensuremath{\ensuremath{^{\tiny \mbox{\tiny CP}}}$ to return to reading mode.
- press once 🔤 to return to another folder selection.
- with and keys, you can choose another sub-folder from the folder 100.

12.d- Purge mode

The purge mode enables to freeze the measurement when being displayed, enables to lock the analogue outputs, and to activate the relay 1, in order to actuate a de-dust system of an air movement conditions system and to activate the relay 2 in order to isolate the transmitter.

Here is the detailed process of purge mode :

- 1 Measurement is frozen.
- 2 Wait for three seconds.
- 3 Activation of relay 2 (isolation of the transmitter)
- 4 Wait for time-delay (e.g : 10 seconds).
- 5 Activation of relay 1 (sending compressed air into the network to clean the installation)
- 6 Purge duration ((e.g : 30 seconds)

- 7 Deactivation of relay 1 (stop sending compressed air).
- 8 Wait for time-delay (e.g : 10 seconds).
- 9 Deactivation of relay 2
- 10 Wait for three second.
- 11 Recovery of measurement



9.d.1 - Activation / deactivation of Purge Mode



Go into configuration mode (see page 5). The folder number displayed corresponds to the last configuration folder used.







Select the sub-folder "**303**" and validate with [®].

Select the folder "300" and validate with .

With O and O keys, activate (\pounds) or deactivate (\pounds) the purge mode. Validate with O.





The cursor > returns to sub-folders line.

- press twice 🔤 to return to reading mode.
- press once 🖭 to return to another folder selection.
- with $\textcircled{\bullet}$ and \boxdot keys, choose another sub-folder from the folder 300

9.d.2 -Working duration of purge mode



Go into configuration mode (see page 5). The folder number displayed corresponds to the last configuration folder displayed.







Select the folder "**300**" and validate with [@].

Select the sub-folder "304" and validate with .

With O and \bigcirc keys, enter the value in seconds of the required working duration of each purge (from \mathcal{D} to $\mathcal{E}\mathcal{D}$). Validate with O.



The cursor > returns to sub-folders line.

- press twice 🖾 to return to reading mode.
- press once 😁 to return to another folder selection.
- press and \boxdot to choose another sub-folder from the folder 300

9.d.3 -Frequency



Go into configuration mode (see page 5). The folder number displayed corresponds to the last configuration folder used.



Select the folder "300" and validate with .

Select the sub-folder "305" and validate with .



With keys \oplus and \bigcirc , enter the value in minutes of the frequency of each purge (from 01 to 9999). Validate with .





The cursor > returns to sub-folders line.

- press twice (50) to return to reading mode.
- press once (ESC) to return to another folder selection.
- with \oplus and \bigcirc , choose another sub-folder from the folder 300.

12.d.4 - Time-delay

Time-delay corresponds to the advanced and retardation lead time of triggering of the relay 2 relative to the relay 1.



Go into configuration mode (see page 5). The folder number displayed corresponds to the last configuration folder used.

Step 2	F.	3	8	5	
	X.	M M			

Select the folder "300" and validate with .

Select the sub-folder "306" and validate with .

Step 3



With • and • keys, enter the value in seconds of the time-delay required (from DD to 5D). Validate with .



The cursor > returns to the sub-folders line.

- press twice is to return to reading mode.
- press once 🖾 to return to another folder selection.
- with \oplus and \odot keys, choose another sub-folder from the folder 300.



Problem :

 Interchangeable Measuring Sensor (SPI element) not connected

Solution :

• Connect the probe / SPI (see SPI notice)

11. Functions recap

Code	XXX	Description	Available settings	
100	200	Channel n° for IR remote control	0 to 9	
101	202	Sending data via Rs232	0 or 1	
102	204	Serial number display	44.055	
נטז וחט	206	Modbus slave number	1 to 255	
רטו	ZUO	module communication speed	DD 2400 bds D2 9600 bds D4 38400 bds D1 4800 bds D3 19200 bds D5 115200 bds	
Code	XXX	Description Availab	ole settings	
200	400	Unit of channel 1	Pa nmH ₂ O	
< Comparison of the second sec		02 ir 03 n	nWg nbar	

Code	Aod has	Description	Available settings
300	600	Analogue output setting on channel 1	0 =>0V, 1 =>5V, 2 =>10V 3 =>4mA, 4 =>12mA, 5 =>20mA
301	602	Analogue output minimum on channel 1	
302	604	Analogue output maximum on channel 1	
303	606	Activation / Deactivation of purge mode	00 or 01
304	608	Working time of each purge	from 01 to 60 seconds
305	610	Frequency of each purge	from 01 to 9999 minutes
306	612	Time-delay before and after purge	from 00 to 60 seconds

Code	Not days	Description	Available settings	
500	1000	Measurement integration	from 0 to 9	
501	1002	Self-calibration for time-delay	from 0 to 60 minutes	

11. Functions recap

_	PEHOD G						
	Code	NXX STATE	Description	Available settings			
	400	800	Audible alarm	0 or 1			
	401	802	Relays security	0 (negative) or 1 (positive)			
ZM 1	402	804	Channel selection for alarm 1	0=>inactive 1=> setpoint 1, setpoint 2 and time-delay 2=> setpoint 1, time-delay and rising action 3=> setpoint 1, time-delay, and falling action			
⊈ ∢	403	806	Setpoint 1 of alarm 1	· · · · · · · · · · · · · · · · · · ·			
Ĺ	404	808	Setpoint 2 of alarm 1				
	405	810	Time-delay on alarm 1	from 0 to 60 seconds			
2 M 2	406	812	Channel selection for alarm 2	 0=>inactive 1=> setpoint 1, setpoint 2 and time-delay 2=> setpoint 1, time-delay and rising action 3=> setpoint 1, time-delay and falling action 			
\triangleleft	407	814	Setpoint 1 of alarm 2				
	408	816	Setpoint 2 of alarm 2				
	409	818	Time-delay on alarm 2	from 0 to 60 seconds			
, ∠	410	820	Alarm type selection for Relay 1	 0=> inactive 1=> setpoint 1, setpoint 2 and time-delay 2=> setpoint 1, time-delay and rising action 3=> setpoint 1, time-delay and falling action 			
L N	411	822	Setpoint 1 of Relay 1				
Ш	412	824	Setpoint 2 of Relay 1				
r	413	826	Time-delay on Relay 1	from 0 to 60 seconds			
4Y 2	414	828	Alarm type selection for Relay 2	 0=> inactive 1=> setpoint 1, setpoint 2 and time-delay 2=> setpoint 1, time-delay and rising action 3=> setpoint 1, time-delay and falling action 			
	415	830	Setpoint 1 of Relay 2				
Ш С	415	832	Setpoint 2 of Relay 2				
	417	834	Time-delay on Relay 2	from 0 to 60 seconds			

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