Remote user interfaces (with CAN port)



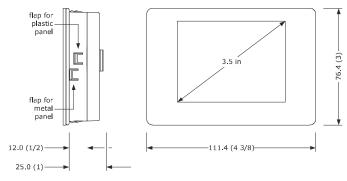




- 24 VAC/12... 30 VDC power supply not insulated
- 3.5 in colour touch-screen TFT graphic display
- alarm buzzer
- RS-485 MODBUS port
- device for indoor applications.

Purchasing codes	Installation mode	Power supply	Incorporated sensor
EPJC900X4	panel mounted	24 VAC/12 30 VDC	no
EPJC900X4VW	wall mounted	24 VAC/12 30 VDC	no
EPJC900X4VW	wall mounted	24 VAC/12 30 VDC	temperature

MEASUREMENTS AND INSTALLATION | Measurements in mm (in)



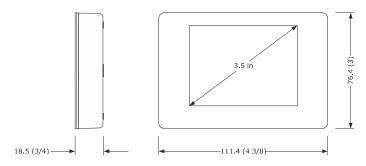
To be fitted to a panel, with elastic holding flaps.



the thickness of a metal panel must be between 0.8 and 1.5 mm (1/32 and 1/16 in), while that for a plastic panel must be between 0.8 and 3.4 mm (1/32 and 1/8 in)

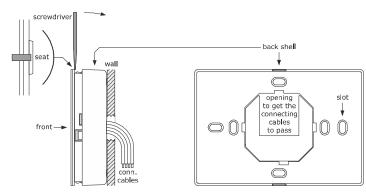
the measurements of drilling template must be 107.6 x 72.6 mm (3 15/16 x 2 7/8 in), with rounded corners R 3.0 mm (1/8 in).

Models for wall mounting



Wall mounting (with bolts and fastening screws) or in the most common flush mounting boxes (with fastening screws).

- Unhook the back shell from the front through a screwdriver and the proper seat.
- In case of wall mounting:
 - 2.1.1 Lean the back shell against the wall in a position suitable to get the connecting cable to pass through the proper opening.
 - 2.1.2 Use the slots of the back shell as template to drill 4 holes having a diameter suitable to the bolt
 - 5.0 mm (3/16 in) diameter bolts are suggested
 - 2.1.3 Insert the bolts in the holes drilled in the wall.
 - 2.1.4 Fasten the back shell at the wall with 4 screws
 - Countersunk head screws are suggested. In case of flush mounting box, fasten the back shell at the box with 4 screws
- Countersunk head screws are suggested.
- Make the electrical connection as shown in the section ELECTRICAL CONNECTION without powering up the device.
- Fasten the front of the device at the back shell



INSTALLATION PRECAUTIONS

- Ensure that the working conditions are within the limits stated in the TECHNICAL
- Do not install the device close to heat sources, equipment with a strong magnetic field, in places subject to direct sunlight, rain, damp, excessive dust, mechanical vibrations or shocks
- In compliance with safety regulations, the device must be installed properly to ensure adequate protection from contact with electrical parts. All protective parts must be fixed in such a way as to need the aid of a tool to remove them.

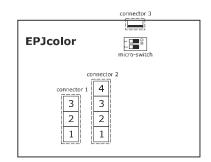
2 ELECTRICAL CONNECTION



Use cables of an adequate section for the current running through them To reduce any electromagnetic interference connect the power cables as far away as possible from the signal cables and connect to a CAN network and RS-485 MODBUS network by using a twisted pair.

Models for panel mounting

2.1.1 Connectors and parts



Connector 1					
N.	DESCRIPTION				
1	reference RS-485 MODBUS port				
2	RS-485 port reference -				
3	RS-485 port reference +				

Connec	tor 2
N.	DESCRIPTION
1	CAN port reference -
2	CAN port reference +
3	device power supply (24 VAC/12 30 VDC). If the device is fed by DC power, connect terminal minus

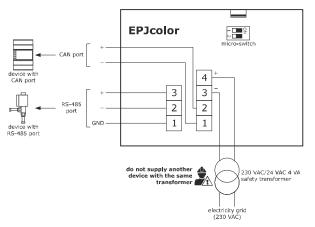
device power supply (24 VAC/12... 30 VDC). If the device is fed by DC power, con-

Connector 3: USB port, for programming the device.

- to insert the RS-485 MODBUS port termination resistor
- to insert the CAN port termination resistor

2.1.2 Electrical connection with independent power supply



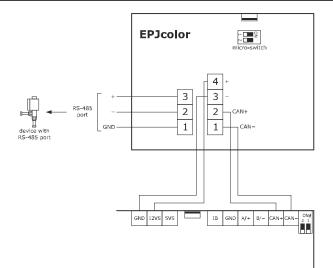


2.1.3 Electrical connection with device powered by a controller (for example c-pro 3 OEM)



N.B.

Make sure that the current supplied by the controller is suitable to power the device.

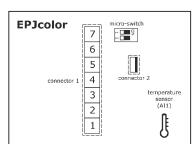


2.1.4 Insertion of the RS-485 MODBUS port and CAN port termination resistor To insert the RS-485 MODBUS port termination resistor, place micro-switch 1 in position ON.

To insert the CAN port termination resistor, place micro-switch 2 in position ON. The micro-switch is at the back of the device (remove the back shell from the front before).

Models for wall mounting

2.2.1 Connectors and parts



Connector 1 N. DESCRIPTION

1	CAN port reference -
2	CAN port reference +
3	device power supply (24 VAC/12 30 VDC). If the device is fed by DC power, con-
	nect terminal minus
4	device power supply (24 VAC/12 30 VDC). If the device is fed by DC power, con-
	nect terminal plus
5	reference RS-485 MODBUS port
- 6	PS 485 port reference -

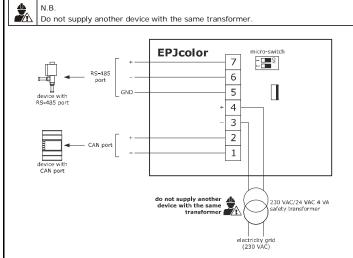
Connector 2: USB port, for programming the device.

7 RS-485 port reference +

- to insert the RS-485 MODBUS port termination resistor
- to insert the CAN port termination resistor

Temperature (AI1) sensor: according to the model.

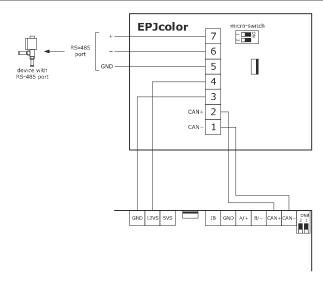
2.2.2 Electrical connection with independent power supply



2.2.3 Electrical connection with device powered by a controller (for example c-pro 3 OEM)



N.B.
Make sure that the current supplied by the controller is suitable to power the device

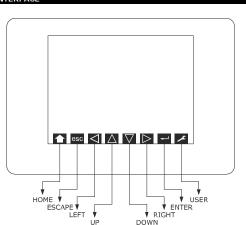


2.2.4 Insertion of the RS-485 MODBUS port and CAN port termination resistor To insert the RS-485 MODBUS port termination resistor, place micro-switch 1 in position ON. To insert the CAN port termination resistor, place micro-switch 2 in position ON. The micro-switch is at the back of the device (remove the back shell from the front before).

PRECAUTIONS FOR ELECTRICAL CONNECTION

- If using an electrical or pneumatic screwdriver, adjust the tightening torque
- If the device has been moved from a cold to a warm place, the humidity may have caused condensation to form inside. Wait about an hour before switching on the power Make sure that the supply voltage, electrical frequency and power are within the set
- limits. See the section TECHNICAL SPECIFICATIONS Disconnect the power supply before doing any type of maintenance
- Do not use the device as safety device
- For repairs and for further information, contact the EVCO sales network; possible returns without label data will not be accepted.

3 USER INTERFACE



Switching the device on and off

- Power up the device: an internal test will be run.
 - Touch the low part of the display to show the sensitive areas.

Setting configuration parameters of "Parameters" and "Networks" menu

Ċ.	N.B. Turn off the power after changing the configuration.
1.	Touch the low part of the display to show the sensitive areas.

	2.	7	Touch the USER area: the display will show the frame "Network Status (CAN)".
	3.	← □	Touch the ENTER area: the display will show the frame "V-COLOR BROWS".
-	4.	√	Touch the UP or DOWN area to select a menu.
-	5.	Ţ	Touch the ENTER area to access a menu: the display will show the frame "Input Password".
-	6.	7	Touch the ENTER area again.
-	7.		Touch the UP or DOWN area to set "-19".
	8.	7	Touch the ENTER area: the display will show the frame of the menu.
		٨	

Touch the UP or DOWN area to select a parameter.

EVCO S. 10.	p.A. EPJcolor Instru	uction sheet ver. 1.0 Code 104PJCOLORE103 Page 2 of 2 PT 27/20 Touch the ENTER area.				1	*4FAUL	
11.	<i>€</i>	Touch the UP or DOWN area to set the value.		N. 7	PARAMETER English	DEF.	(READ ONLY)	MIN MAX. Available if the application
12.	7	Touch the ENTER area.			English		project words (if fore- seen)	software of the connected control foresee the multilan-
13.	esc	Touch the ESCAPE area a few times to return to the previous displays.		8	Italian	-	showing in Italian the project words (if fore-seen)	guage management
4.2	Set the date and t	ime		9	Français	-	showing in French the project words (if fore-	
1.	Touch the low part	of the display to show the sensitive areas.	(10	Español	-	seen) showing in Spanish the	
2.	عر	Touch the USER area: the display will show the frame "Network Status(CAN)". Touch the ENTER area: the display will show the frame "V-COLOR		11	Deutsch	_	project words (if fore- seen) showing in German the	
4.	~	BROWS". Touch the UP or DOWN area to select the date and time.			Doution.		project words (if fore- seen)	
5.		Touch the ENTER area.		12	Russian	-	showing in Russian the project words (if fore-	
6.	()	Touch the LEFT or RIGHT area to select a field.		13	Portoguês	-	showing in Portoguese the project words (if	
7.	()	Touch the UP or DOWN area to set the value.	-	N.	PARAMETER	DEF.	foreseen) "Parameters" MENU	MIN MAX.
8.	1	Touch the ENTER area.		14	Date Char Separator	-	ASCII character as data separator	-
9.	esc	Touch the ESCAPE area a few times to return to the previous displays.		15	Year format Date format	dd	year format data format	YY = 2 numbers YYYY = 4 numbers yy mm dd = year, month
		to show the words of the project (if foreseen and if the de- grammable" mode)			Date format	mm yy	data format	and day mm dd yy = month, day
1.	Touch the low part	of the display to show the sensitive areas.						and year dd mm yy = day, month
2.	عر	Touch the USER area: the display will show the frame "Network Status(CAN)".		17	Time Char Separator	:	ASCII character as hour separator	and year
3.	→	Touch the ENTER area: the display will show the frame "V-COLOR BROWS".		18	Time With Sec	YES	showing time with se- conds	NO = no YES = yes
4.	√	Touch the UP or DOWN area to select "Languages".		19	Time AM/PM	NO	time format	NO = 24 h YES = 12 h
5.	- ^ /	Touch the ENTER area.	4.5	20	Backlight Mode	TIME	backlight type	off = off on = on TIME= with Backlight Timeout
6.	√ • • • • • • • • • • • • • • • • • • •	Touch the UP or DOWN area to select the language. Touch the ENTER area.	*	21	Backlight Timeout	60	timeout backlight	0 240 s
7. 8.	esc	Touch the ESCAPE area a few times to return to the previous dis-		22	I/O Timeout	60	delay remote I/O disa- bling from CAN commu-	0 240 s
5	CONFIGURATION	plays. JPLOAD/DOWNLOAD		23	Refresh Timeout	0	nication absence update variables timeout	0 100 ms
		d/download (if the device works in "programmable" mode)		24	Print Loading	NO	showing "Loading" during project page load-	NO = no YES = yes
*	N.B.	oad/download is allowed on condition that parameters of origin co-		25	Password Timeout	60	"Parameters", "Net- works" and "Back-	0 240 s
Φ ₀	incide with parar	neters of destination I normally takes a few seconds.			· · · · · · · · · · · · · · · · · · ·		up/Restore" menu pass- word timeout	
1.	Touch the low part	of the display to show the sensitive areas.		26	Beep Mode	2	beep type when touching the display	0 = never 1 = always 2 = if the area is sensitive
2.	عر	Touch the USER area: the display will show the frame "Network Status(CAN)".		27	Print Frame	0	showing frames instead low size pages	0 = no 1 = yes
3.	4	Touch the ENTER area: the display will show the frame "V-COLOR BROWS".		N.	PARAMETER	DEF.	"Networks > CAN bus"	MIN MAX.
4.	Λ.	Touch the UP or DOWN area to select "Backup/Restore".					MENU	
4.				28	MyNode	99	CAN address	1 127
5.	←	Touch the ENTER area to access a menu: the display will show the frame "Input Password".		28 29 30	MyNode Master Baud	99 - Auto		1 127 - 20K = 20,000 baud 50K = 50,000 baud
5. 6.	1	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again.		29	Master	-	CAN address reserved	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 500K = 500,000 baud
5.	←	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the UP or DOWN area to set "-19". Touch the ENTER area: the display will show the frame "Back-		29	Master	-	CAN address reserved	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 500K = 500,000 baud Auto = automatic recognizing of baud rate if one of
5.6.7.	1	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the UP or DOWN area to set "-19".		29	Master	-	CAN address reserved	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 500K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous
5.6.7.8.	FIELD USB Key	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the UP or DOWN area to set "-19". Touch the ENTER area: the display will show the frame "Back-up/Restore". Touch the LEFT or RIGHT area to select a field. MEANING upload/download from USB flash drive		30	Master Baud Timeout	- Auto	CAN address reserved CAN baud rate delay exclusion device in CAN network from absence of communication physical node joined to	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 500K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous 0 240 s
5.6.7.8.	FIELD	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the UP or DOWN area to set "-19". Touch the ENTER area: the display will show the frame "Back-up/Restore". Touch the LEFT or RIGHT area to select a field. MEANING		30	Master Baud	- Auto	CAN address reserved CAN baud rate delay exclusion device in CAN network from absence of communication physical node joined to the logic node "Networks > CAN bus >	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 500K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous 0 240 s
5. 6. 7. 8. 9.	FIELD USB Key Backup Memory	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the UP or DOWN area to set "-19". Touch the ENTER area: the display will show the frame "Back-up/Restore". Touch the LEFT or RIGHT area to select a field. MEANING upload/download from USB flash drive upload/ download from device memory		31 32	Master Baud Timeout Network Node	- Auto	CAN address reserved CAN baud rate delay exclusion device in CAN network from absence of communication physical node joined to the logic node "Networks > CAN bus > CAN status" MENU number of received packages	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 500K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous 0 240 s [1] 1 [32] 127 MIN MAX. 0 9999
5. 6. 7. 8. 9.	FIELD USB Key Backup Memory FIELD Application pa-	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the UP or DOWN area to set "-19". Touch the ENTER area: the display will show the frame "Back-up/Restore". Touch the LEFT or RIGHT area to select a field. MEANING upload/download from USB flash drive upload/ download from device memory Touch the ENTER area: the display will show the relative frame. Touch the LEFT or RIGHT area to select a field. MEANING		31 32 N. 33	Master Baud Timeout Network Node PARAMETER Cnt Rx Cnt Tx	- Auto	CAN address reserved CAN baud rate delay exclusion device in CAN network from absence of communication physical node joined to the logic node "Networks > CAN bus > CAN status" MENU number of received packages number of transmitted packages	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 500K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous 0 240 s [1] 1 [32] 127 MIN MAX. 0 9999
5. 6. 7. 8. 9.	FIELD USB Key Backup Memory FIELD Application parameters Hardware con-	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the UP or DOWN area to set "-19". Touch the ENTER area: the display will show the frame "Back-up/Restore". Touch the LEFT or RIGHT area to select a field. MEANING upload/download from USB flash drive upload/ download from device memory Touch the ENTER area: the display will show the relative frame. Touch the LEFT or RIGHT area to select a field.	•	31 32 N.	Master Baud Timeout Network Node PARAMETER Cnt Rx	- Auto	CAN address reserved CAN baud rate delay exclusion device in CAN network from absence of communication physical node joined to the logic node "Networks > CAN bus > CAN status" MENU number of received packages number of transmitted	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 125K = 125,000 baud 500K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous 0 240 s [1] 1 [32] 127 MIN MAX. 0 9999 0 9999
5. 6. 7. 8. 9.	FIELD USB Key Backup Memory FIELD Application parameters	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the UP or DOWN area to set "-19". Touch the ENTER area: the display will show the frame "Back-up/Restore". Touch the LEFT or RIGHT area to select a field. MEANING upload/download from USB flash drive upload/ download from device memory Touch the ENTER area: the display will show the relative frame. Touch the LEFT or RIGHT area to select a field. MEANING project parameters	#	31 32 N. 33 34	Master Baud Timeout Network Node PARAMETER Cnt Rx Cnt Tx Cnt Ovf	- Auto	CAN address reserved CAN baud rate CAN baud rate delay exclusion device in CAN network from absence of communication physical node joined to the logic node "Networks > CAN bus > CAN status" MENU number of received packages number of transmitted packages number of intercepted overflow number of intercepted passive number of intercepted	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 125K = 125,000 baud 500K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous 0 240 s [1] 1 [32] 127 MIN MAX. 0 9999 0 9999 0 9999
5. 6. 7. 8. 9.	FIELD USB Key Backup Memory FIELD Application parameters Hardware configuration	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the UP or DOWN area to set "-19". Touch the ENTER area: the display will show the frame "Back-up/Restore". Touch the LEFT or RIGHT area to select a field. MEANING upload/download from USB flash drive upload/ download from device memory Touch the ENTER area: the display will show the relative frame. Touch the LEFT or RIGHT area to select a field. MEANING project parameters configuration parameters Touch the ENTER area. Touch the UP or DOWN area to select "Restore from USB"/"Save on USB" (for field selection "USB Key") or to select	#	31 32 N. 33 34 35 36 37	Master Baud Timeout Network Node PARAMETER Cnt Rx Cnt Tx Cnt Ovf Cnt Passive Cnt Bus Off BufRx Valid	- Auto	CAN address reserved CAN baud rate delay exclusion device in CAN network from absence of communication physical node joined to the logic node "Networks > CAN bus > CAN status" MENU number of received packages number of transmitted packages number of intercepted overflow number of intercepted dossive number of intercepted bus off number receipts ok	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 125K = 125,000 baud 500K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous 0 240 s [1] 1 [32] 127 [1] 1 [32] 127 [1] 1 [32] 127 [1] 1 [32] 127 [1] 1 9999 [1] 1 9999 [1] 1 9999 [1] 1 9999 [1] 1 9999 [1] 1 9999 [1] 1 9999 [1] 1 9999 [1] 1 9999 [1] 1 9999 [1] 1 9999 [1] 1 9999 [1] 1 9999
5. 6. 7. 8. 9. 10. 11. 12.	FIELD USB Key Backup Memory FIELD Application parameters Hardware configuration	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the UP or DOWN area to set "-19". Touch the ENTER area: the display will show the frame "Back-up/Restore". Touch the LEFT or RIGHT area to select a field. MEANING upload/download from USB flash drive upload/ download from device memory Touch the ENTER area: the display will show the relative frame. Touch the LEFT or RIGHT area to select a field. MEANING project parameters configuration parameters Touch the ENTER area. Touch the UP or DOWN area to select "Restore from USB"/"Save on USB" (for field selection "USB Key") or to select "Restore from memory"/ "Save on memory" (for field selection "Backup Memory").	#	31 32 N. 33 34 35 36	Master Baud Timeout Network Node PARAMETER Cnt Rx Cnt Tx Cnt Ovf Cnt Passive Cnt Bus Off BufRx Valid BufTx Valid	- Auto	CAN address reserved CAN baud rate delay exclusion device in CAN network from absence of communication physical node joined to the logic node "Networks > CAN bus > CAN status" MENU number of received packages number of transmitted packages number of intercepted overflow number of intercepted passive number of intercepted bus off number receipts ok number of transmissions ok	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 125K = 125,000 baud 500K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous 0 240 s [1] 1 [32] 127 [1] 1 [32] 127 [1] 1 [32] 127 [1] 1 9999 [1] 0 9999
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5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15.	FIELD USB Key Backup Memory FIELD Application parameters Hardware configuration	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the UP or DOWN area to set "-19". Touch the ENTER area: the display will show the frame "Back-up/Restore". Touch the LEFT or RIGHT area to select a field. MEANING upload/download from USB flash drive upload/ download from device memory Touch the ENTER area: the display will show the relative frame. Touch the LEFT or RIGHT area to select a field. MEANING project parameters configuration parameters Touch the ENTER area. Touch the UP or DOWN area to select "Restore from USB"/"Save on USB" (for field selection "USB Key") or to select "Restore from memory"/ "Save on memory" (for field selection "Backup Memory"). Touch the ENTER area: the configuration upload/download will be run. Touch the ESCAPE area a few times to return to the previous displays.	#	31 32 N. 33 34 35 36 37 38 39 40 41	Master Baud Timeout Network Node PARAMETER Cnt Rx Cnt Tx Cnt Ovf Cnt Passive Cnt Bus Off BufRx Valid BufTx Valid Cnt Tx Err Cnt Rx Err Cnt Stuff	- Auto 5 - DEF	CAN address reserved CAN baud rate delay exclusion device in CAN network from absence of communication physical node joined to the logic node "Networks > CAN bus > CAN status" MENU number of received packages number of transmitted packages number of intercepted overflow number of intercepted bus off number receipts ok number of transmissions ok number of transmissions in error number of receipts in er- ror number stuff errors	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 125K = 125,000 baud 500K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous 0 240 s [1] 1 [32] 127 [1] 1 [32
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 6	FIELD Application parameters Hardware configuration FIELD Application parameters Application parameters Application parameters Application parameters	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the UP or DOWN area to set "-19". Touch the ENTER area: the display will show the frame "Back-up/Restore". Touch the LEFT or RIGHT area to select a field. MEANING upload/download from USB flash drive upload/ download from device memory Touch the ENTER area: the display will show the relative frame. Touch the LEFT or RIGHT area to select a field. MEANING project parameters configuration parameters Touch the ENTER area. Touch the UP or DOWN area to select "Restore from USB"/"Save on USB" (for field selection "USB Key") or to select "Restore from memory"/ "Save on memory" (for field selection "Backup Memory"). Touch the ENTER area: the configuration upload/download will be run. Touch the ESCAPE area a few times to return to the previous displays.	\(\phi\)	31 32 N. 33 34 35 36 37 38 39 40 41 42 43 44	Master Baud Timeout Network Node PARAMETER Cnt Rx Cnt Tx Cnt Ovf Cnt Passive Cnt Bus Off Buffx Valid BufTx Valid Cnt Tx Err Cnt Rx Err Cnt Stuff Cnt Form Cnt Ack	- Auto 5	CAN address reserved CAN baud rate delay exclusion device in CAN network from absence of communication physical node joined to the logic node "Networks > CAN bus > CAN status" MENU number of received packages number of transmitted packages number of intercepted overflow number of intercepted dossive number of intercepted bus off number receipts ok number of transmissions ok number of transmissions in error number of receipts in er- ror number stuff errors number form errors number form errors	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 125K = 125,000 baud 50K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous 0 240 s [1] 1 [32] 127 [1] 1 [32]
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 6	FIELD USB Key Backup Memory FIELD Application parameters Hardware configuration CAPPLICATIONAL FUNC ACCESS to "Info","	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the UP or DOWN area to set "-19". Touch the ENTER area: the display will show the frame "Back-up/Restore". Touch the LEFT or RIGHT area to select a field. MEANING upload/download from USB flash drive upload/ download from device memory Touch the ENTER area: the display will show the relative frame. Touch the LEFT or RIGHT area to select a field. MEANING project parameters Touch the ENTER area. Touch the ENTER area. Touch the UP or DOWN area to select "Restore from USB"/"Save on USB" (for field selection "USB Key") or to select "Restore from memory" / "Save on memory" (for field selection "Backup Memory"). Touch the ENTER area: the configuration upload/download will be run. Touch the ESCAPE area a few times to return to the previous displays. **TIONS** 'Diagnostic" and "Debug" menu (read only) of the display to show the sensitive areas.	\(\phi\)	31 32 N. 33 34 35 36 37 38 39 40 41 42 43	Master Baud Timeout Network Node PARAMETER Cnt Rx Cnt Tx Cnt Ovf Cnt Passive Cnt Bus Off BufRx Valid BufTx Valid Cnt Tx Err Cnt Rx Err Cnt Stuff Cnt Stuff Cnt Form	- Auto 5 - DEF	CAN address reserved CAN baud rate delay exclusion device in CAN network from absence of communication physical node joined to the logic node "Networks > CAN bus > CAN status" MENU number of received packages number of transmitted packages number of intercepted overflow number of intercepted bus off number receipts ok number of transmissions ok number of transmissions in error number of receipts in er- ror number stuff errors number form errors	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 125K = 125,000 baud 500K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous 0 240 s [1] 1 [32] 127 [1] 1 [32] 1 [
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 6	FIELD USB Key Backup Memory FIELD Application parameters Hardware configuration ESC ACCESS to "Info", Touch the low part	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the UP or DOWN area to set "-19". Touch the ENTER area: the display will show the frame "Back-up/Restore". Touch the LEFT or RIGHT area to select a field. MEANING upload/download from USB flash drive upload/ download from device memory Touch the ENTER area: the display will show the relative frame. Touch the LEFT or RIGHT area to select a field. MEANING project parameters configuration parameters Touch the UP or DOWN area to select "Restore from "SB"/"Save on USB" (for field selection "USB Key") or to select "Restore from memory"/ "Save on memory" (for field selection "Backup Memory"). Touch the ENTER area: the configuration upload/download will be run. Touch the ESCAPE area a few times to return to the previous displays. Touch the USER area: the display will show the frame "Network Status(CAN)".	\(\phi\)	31 32 N. 33 34 35 36 37 38 39 40 41 42 43 44 45 N.	Master Baud Timeout Network Node PARAMETER Cnt Rx Cnt Tx Cnt Ovf Cnt Passive Cnt Bus Off BufRx Valid BufTx Valid Cnt Tx Err Cnt Rx Err Cnt Stuff Cnt Form Cnt Ack Cnt Bit1 Cnt Bit0 Cnt CRC PARAMETER	- Auto 5 - DEF.	CAN address reserved CAN baud rate delay exclusion device in CAN network from absence of communication physical node joined to the logic node "Networks > CAN bus > CAN status" MENU number of received packages number of intercepted packages number of intercepted passive number of intercepted bus off number receipts ok number of transmissions ok number of transmissions ok number of transmissions in error number of receipts in error number stuff errors number bitl errors number bitl errors number bitl errors number CRC errors "Networks > CAN bus > CAN Bit Timing" MENU	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 125K = 125,000 baud 50K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous 0 240 s [1] 1 [32] 127 [1] 1 [32] 1
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 6 6.1 1. 2. 3.	FIELD USB Key Backup Memory FIELD Application parameters Hardware configuration ESC ADDITIONAL FUNC Access to "Info"," Touch the low part	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the UP or DOWN area to set "-19". Touch the ENTER area: the display will show the frame "Back-up/Restore". Touch the LEFT or RIGHT area to select a field. MEANING upload/download from USB flash drive upload/ download from device memory Touch the ENTER area: the display will show the relative frame. Touch the LEFT or RIGHT area to select a field. MEANING project parameters configuration parameters Touch the ENTER area. Touch the UP or DOWN area to select "Restore from USB"/"Save on USB" (for field selection "USB Key") or to select "Restore from memory"/ "Save on memory" (for field selection "Backup Memory"). Touch the ENTER area: the configuration upload/download will be run. Touch the ESCAPE area a few times to return to the previous displays. Piagnostic" and "Debug" menu (read only) of the display to show the sensitive areas. Touch the USER area: the display will show the frame "Network Status(CAN)". Touch the ENTER area: the display will show the frame "V-COLOR BROWS".	\(\phi\)	31 32 N. 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 N.	Master Baud Timeout Network Node PARAMETER Cnt Rx Cnt Tx Cnt Ovf Cnt Passive Cnt Bus Off BufRx Valid BufTx Valid Cnt Tx Err Cnt Rx Err Cnt Stuff Cnt Form Cnt Ack Cnt Bit1 Cnt Bit0 Cnt CRC PARAMETER BrP SJW	- Auto 5 - DEF	CAN address reserved CAN baud rate delay exclusion device in CAN network from absence of communication physical node joined to the logic node "Networks > CAN bus > CAN status" MENU number of received packages number of transmitted packages number of intercepted overflow number of intercepted dossive number of intercepted bus off number receipts ok number of transmissions ok number of transmissions in error number of receipts in er- ror number stuff errors number ack errors number bit1 errors number bit1 errors number CRC errors "Networks > CAN bus > CAN Bit Timing" MENU reserved reserved	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 125K = 125,000 baud 125K = 125,000 baud 500K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous 0 240 s [1] 1 [32] 127 [1] 1 [32]
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 6 6.1 1. 2. 3. 4.	FIELD USB Key Backup Memory FIELD Application parameters Hardware configuration Concept Address to "Info", Touch the low part	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the UP or DOWN area to set "-19". Touch the ENTER area: the display will show the frame "Backup/Restore". Touch the LEFT or RIGHT area to select a field. MEANING upload/download from USB flash drive upload/ download from device memory Touch the ENTER area: the display will show the relative frame. Touch the LEFT or RIGHT area to select a field. MEANING project parameters configuration parameters Touch the ENTER area. Touch the UP or DOWN area to select "Restore from USB"/"Save on USB" (for field selection "USB Key") or to select "Restore from memory" 'Save on memory" (for field selection "Backup Memory"). Touch the ENTER area: the configuration upload/download will be run. Touch the ESCAPE area a few times to return to the previous displays. **TIONS** 'Diagnostic" and "Debug" menu (read only) of the display to show the sensitive areas. Touch the USER area: the display will show the frame "Network Status(CAN)". Touch the ENTER area: the display will show the frame "V-COLOR BROWS". Touch the UP or DOWN area to select a menu.	\(\Phi\)	31 32 N. 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 N.	Master Baud Timeout Network Node PARAMETER Cnt Rx Cnt Tx Cnt Ovf Cnt Passive Cnt Bus Off BufRx Valid BufTx Valid Cnt Tx Err Cnt Stuff Cnt Form Cnt Ack Cnt Bit1 Cnt Bit0 Cnt CRC PARAMETER BrP SJW T.SEG1 T.SEG1	- Auto 5 DEF.	CAN address reserved CAN baud rate delay exclusion device in CAN network from absence of communication physical node joined to the logic node "Networks > CAN bus > CAN status" MENU number of received packages number of transmitted packages number of intercepted overflow number of intercepted bus off number of transmissions ok number of transmissions in error number of receipts in error number stuff errors number form errors number bit1 errors number bit0 errors number CRC errors "Networks > CAN bus > CAN Bit Timing" MENU reserved reserved reserved reserved	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 125K = 125,000 baud 125K = 125,000 baud 500K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous 0 240 s [1] 1 [32] 127 [1] 1 [32] 1 [
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 6 6.1 1. 2. 3.	FIELD USB Key Backup Memory FIELD Application parameters Hardware configuration ESC ADDITIONAL FUNC Access to "Info"," Touch the low part	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the UP or DOWN area to set "-19". Touch the ENTER area: the display will show the frame "Back-up/Restore". Touch the LEFT or RIGHT area to select a field. MEANING upload/download from USB flash drive upload/ download from device memory Touch the ENTER area: the display will show the relative frame. Touch the LEFT or RIGHT area to select a field. MEANING project parameters Touch the ENTER area. Touch the UP or DOWN area to select "Restore from USB"/"Save on USB" (for field selection "USB Key") or to select "Restore from memory"/ "Save on memory" (for field selection "Backup Memory") Touch the ENTER area: the configuration upload/download will be run. Touch the ESCAPE area a few times to return to the previous displays. TIONS "Diagnostic" and "Debug" menu (read only) of the display to show the sensitive areas. Touch the USER area: the display will show the frame "Network Status(CAN)". Touch the ENTER area: the display will show the frame "V-COLOR BROWS". Touch the UP or DOWN area to select a menu. Touch the ENTER area.	\(\Phi\)	31 32 N. 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 N.	Master Baud Timeout Network Node PARAMETER Cnt Rx Cnt Tx Cnt Ovf Cnt Passive Cnt Bus Off BufRx Valid BufTx Valid Cnt Tx Err Cnt Rx Err Cnt Stuff Cnt Form Cnt Ack Cnt Bit1 Cnt Bit0 Cnt CRC PARAMETER BrP SJW T.SEG1	- Auto DEF	CAN address reserved CAN baud rate delay exclusion device in CAN network from absence of communication physical node joined to the logic node "Networks > CAN bus > CAN status" MENU number of received packages number of intercepted packages number of intercepted overflow number of intercepted bus off number receipts ok number of transmissions ok number of transmissions ok number of transmissions in error number of receipts in er- ror number stuff errors number bit1 errors number bit1 errors number CRC errors "Networks > CAN bus > CAN Bit Timing" MENU reserved reserved	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 125K = 125,000 baud 125K = 125,000 baud 500K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous 0 240 s [1] 1 [32] 127 [1] 1 [32]
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5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 6 4. 5.	FIELD USB Key Backup Memory FIELD Application parameters Hardware configuration esc ADDITIONAL FUNC Access to "Info", Touch the low part	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the ENTER area: the display will show the frame "Back-up/Restore". Touch the LEFT or RIGHT area to select a field. MEANING upload/download from USB flash drive upload/ download from device memory Touch the ENTER area: the display will show the relative frame. Touch the ENTER area: the display will show the relative frame. Touch the LEFT or RIGHT area to select a field. MEANING project parameters Configuration parameters Touch the ENTER area. Touch the UP or DOWN area to select "Restore from USB"/"Save on USB" (for field selection "USB Key") or to select "Restore from memory" / "Save on memory" (for field selection "Backup Memory"). Touch the ENTER area: the configuration upload/download will be run. Touch the ESCAPE area a few times to return to the previous displays. TIONS "Diagnostic" and "Debug" menu (read only) of the display to show the sensitive areas. Touch the USER area: the display will show the frame "Network Status(CAN)". Touch the ENTER area: the display will show the frame "V-COLOR BROWS". Touch the ENTER area: the display will show the frame "V-COLOR BROWS". Touch the ENTER area a few times to return to the previous displays. PARAMETERS DEF. "Info" MENU (READ ON- MIN MAX.		31 32 N. 33 34 35 36 37 38 39 40 41 42 43 44 45 50 51 N.	Master Baud Timeout Network Node PARAMETER Cnt Rx Cnt Tx Cnt Ovf Cnt Passive Cnt Bus Off BufRx Valid BufTx Valid Cnt Tx Err Cnt Stuff Cnt Form Cnt Ack Cnt Bit0 Cnt CRC PARAMETER BrP SJW T.SEG1 PARAMETER Address	- Auto 5 - DEF	CAN address reserved CAN baud rate delay exclusion device in CAN network from absence of communication physical node joined to the logic node "Networks > CAN bus > CAN status" MENU number of received packages number of intercepted packages number of intercepted packages number of intercepted passive number of intercepted bus off number receipts ok number of transmissions ok number of transmissions ok number of transmissions in error number of receipts in error number stuff errors number bitl errors number bitl errors number bitl errors number CRC errors "Networks > CAN bus > CAN Bit Timing" MENU reserved reserved "Networks > UART" MENU MODBUS address	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 125K = 125,000 baud 125K = 125,000 baud 50W = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous 0 240 s [1] 1 [32] 127 [1] 1 [32] 1
5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 6 4. 5.	FIELD USB Key Backup Memory FIELD Application parameters Hardware configuration ESC ACCESS to "Info", Touch the low part ESC CONFIGURATION	Touch the ENTER area to access a menu: the display will show the frame "Input Password". Touch the ENTER area again. Touch the ENTER area: the display will show the frame "Back-up/Restore". Touch the LEFT or RIGHT area to select a field. MEANING upload/download from USB flash drive upload/ download from device memory Touch the ENTER area: the display will show the relative frame. Touch the LEFT or RIGHT area to select a field. MEANING project parameters Touch the LEFT or RIGHT area to select a field. MEANING project parameters Touch the UP or DOWN area to select "Restore from USB"/"Save on USB" (for field selection "USB Key") or to select "Restore from memory" / "Save on memory" (for field selection "Backup Memory"). Touch the ENTER area: the configuration upload/download will be run. Touch the ESCAPE area a few times to return to the previous displays. Touch the USER area: the display will show the frame "Network Status(CAN)". Touch the USER area: the display will show the frame "V-COLOR BROWS". Touch the UP or DOWN area to select a menu. Touch the UP or DOWN area to select a menu.	₩ Id	31 32 N. 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 N. 48 49 50 51 N.	Master Baud Timeout Network Node PARAMETER Cnt Rx Cnt Tx Cnt Ovf Cnt Passive Cnt Bus Off BufRx Valid BufTx Valid Cnt Tx Err Cnt Rx Err Cnt Stuff Cnt Form Cnt Ack Cnt Bit1 Cnt Bit0 Cnt CRC PARAMETER BrP SJW T.SEG1 T.SEG1 PARAMETER Address Parity	- Auto 5 DEF.	CAN address reserved CAN baud rate delay exclusion device in CAN network from absence of communication physical node joined to the logic node "Networks > CAN bus > CAN status" MENU number of received packages number of transmitted packages number of intercepted overflow number of intercepted bus off number of transmissions ok number of transmissions ok number of transmissions in error number of receipts in error number stuff errors number form errors number bit1 errors number bit0 errors number CRC errors "Networks > CAN bus > CAN Bit Timing" MENU reserved reserved reserved "Networks > UART" MENU MODBUS address MODBUS parity	- 20K = 20,000 baud 50K = 50,000 baud 125K = 125,000 baud 125K = 125,000 baud 50K = 500,000 baud Auto = automatic recognizing of baud rate if one of the previous 0 240 s
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	57	Device	-	reserved	-
		Status Idle Init Speed			
	N.	PARAMETER	DEF.	"Diagnostic" MENU (READ ONLY)	MIN MAX.
	58	EEPROM	-	EEPROM memory status	OK = not in error ERR = in error
	59	RTC	-	clock status	OK = not in error ERR = in error LOW = data lost DISAB = not enabled
2	60	STACK	1	stack status	OK = not in error ERR = in error (for overflow)
	61	MATH	-	math status	OK = not in error ERR = in error (for overflow, underflow, division by zero or NaN)
	62	KEY PAR	-	result upload/download via USB project and con- figuration parameters	OK = successfully completed ERR = unsuccessfully com- pleted
	N.	PARAMETER	DEF.	"Debug" MENU (READ ONLY)	MIN MAX.
	63	Main time	-	main cycle time for soft- ware (ms)	-
	64	max time main	-	maximum value main cycle time for software	-
€*	65	free stack main	-	minimum free stack of main	-
	66	100ms time	-	reserved	-
	67	max time 100 ms	-	reserved	-
	68	free stack 100 ms	-	reserved	-
	N.	PARAMETER	DEF.	"Sensor" MENU (VISIBLE ACCORDING TO THE MODEL)	MIN MAX.
O,	69	Temperature	-	incorporated sensor temperature reading (AI1)	-
	70	Offset	0.0	incorporated sensor temperature reading off- set (AI1)	-10.0 10.0 °C
8	TECH	INICAL SPECI	FICATI	ONS	

	70	Offset	0.0	incorporated temperature set (AI1)	d sensor e reading off-	-10.0 10.0 °C		
8	TECH	INICAL SPECIFI	CATI	ONS				
Purpos	se of t	he control device			Function contr	oller		
		of the control de	vice		Built-in electro	onic device		
Contail	ner				Black, self-ext	inauishina		
Catego	orv of	heat and fire resi	stanc	е	D			
Measu				dels for pane	l mounting	ting 111.4 x 76.4 x 25.0 mm (4 3/8 x 3 x 1 in)		
			Мо	odels for wall mounting		111.4 x 76.4 x 18.5 mm (4 3/8 x 3 x 3/4 in)		
Mounting methods for the control device			device	According to the model, panel mounting (with elastic holding flaps), wall mounting (with bolts and fastening screws) or in the most common flush mounting box (with fastening screws)				
Degree	e of p	rotection provided	by t	he covering	IP30 (IP65 in case of panel mounting)			
Connec	ction	method	Мо	dels for pane	Removable screw terr blocks for wires up to 1 m			
			Мо	dels for wall	mounting	Fixed screw terminal blocks for wires up to 1 mm ²		
Maxim	um pe	ermitted length fo	r con	nection cable	S			
Power	suppl	y: 10 m (32.8 ft)			RS-485 MODBUS port: 1,000 m (3,280 ft)			
CAN port: - 1,000 m (3,280 ft) with baud rate 20.000 baud - 500 m (1,640 ft) with baud rate 50.000 baud - 250 m (820 ft) with baud rate 125.000 baud - 50 m (164 ft) with baud rate 500.000 baud Over 10 m (32.8 ft) use a shielded cable								
Operating temperature					From -10 to 55 °C (from 14 to 131 °F)			
Storage temperature					From -20 to 70 °C (from -4 to 158 °F)			
Operating humidity					Relative humidity without condensate from 5			

gp	== = (
Operating humidity	Relative humidity without condensate from 5			
	to 95%			
Pollution status of the control device	2			
Compliance				
RoHS 2011/65/EC	WEEE 2012/19/EU			
REACH (EC) Regulation N. 1907/2006	EMC 2014/30/UE	RED 2014/53/UE		
Power supply	24 VAC (±15%), 50	/60 Hz (±3 Hz), max.		
	4 VA not insulated of	or 12 30 VDC, max.		
	2 W not insulated (ir	ndependent power sup-		
	ply or by a controller)			
Earthing methods for the control device	None			
Rated impulse-withstand voltage	I			
Over-voltage category	330 V			
Software class and structure	Α			
Clock	Incorporated seconda	ry lithium battery		
Clock drift	≤ 55 s/month at 25 °	C (77 °F)		
Clock battery autonomy in the absence of a	6 momths			
power supply				
Clock battery charging time	24 h (the battery is	charged by the power		
	supply of the device)			
Displays	Colour touch-screen T	FT graphic display		
Alarm buzzer	Built-in			
Incorporated sensors:	temperature (accordin	ng to the model)		
Working range incorporated temperature sen-	0 40 °C (32 104	°F); accuracy ±0,5 °C		
sor:	at 25 °C in static air			
Temperature value will be read with the corre	ect compensation after	30 min the device has		
been switched on.				

1 CAN port

Communications ports

1 RS-485 MODBUS port

N.B.
The device must be disposed of according to local regulations governing the collection of electrical and electronic waste.

1 USB port

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customer (manufacturer, installer or end-user) assumes all responsibility for the configuration of the de-

