PERFORMANCE MADE SMARTER

Product manual 5714 Programmable LED indicator















TEMPERATURE | I.S. INTERFACES | COMMUNICATION INTERFACES | MULTIFUNCTIONAL | ISOLATION | DISPLAY

No. 5714V104-UK

From serial number: 121496001 (A+B)

131077001 (C+D)



6 Product Pillars to meet your every need

Individually outstanding, unrivalled in combination

With our innovative, patented technologies, we make signal conditioning smarter and simpler. Our portfolio is composed of six product areas, where we offer a wide range of analog and digital devices covering over a thousand applications in industrial and factory automation. All our products comply with or surpass the highest industry standards, ensuring reliability in even the harshest of environments and have a 5-year warranty for greater peace of mind.



Our range of temperature transmitters and sensors provides the highest level of signal integrity from the measurement point to your control system. You can convert industrial process temperature signals to analog, bus or digital communications using a highly reliable point-to-point solution with a fast response time, automatic self-calibration, sensor error detection, low drift, and top EMC performance in any environment.



We deliver the safest signals by validating our products against the toughest safety standards. Through our commitment to innovation, we have made pioneering achievements in developing I.S. interfaces with SIL 2 Full Assessment that are both efficient and cost-effective. Our comprehensive range of analog and digital intrinsically safe isolation barriers offers multifunctional inputs and outputs, making PR an easy-to-implement site standard. Our backplanes further simplify large installations and provide seamless integration to standard DCS systems.



We provide inexpensive, easy-to-use, future-ready communication interfaces that can access your PR installed base of products. All the interfaces are detachable, have a built-in display for readout of process values and diagnostics, and can be configured via push-buttons. Product specific functionality includes communication via Modbus and Bluetooth and remote access using our PR Process Supervisor (PPS) application, available for iOS and Android.



Our unique range of single devices covering multiple applications is easily deployable as your site standard. Having one variant that applies to a broad range of applications can reduce your installation time and training, and greatly simplify spare parts management at your facilities. Our devices are designed for long-term signal accuracy, low power consumption, immunity to electrical noise and simple programming.



Our compact, fast, high-quality 6 mm isolators are based on microprocessor technology to provide exceptional performance and EMC-immunity for dedicated applications at a very low total cost of ownership. They can be stacked both vertically and horizontally with no air gap separation between units required.



Our display range is characterized by its flexibility and stability. The devices meet nearly every demand for display readout of process signals, and have universal input and power supply capabilities. They provide a real-time measurement of your process value no matter the industry, and are engineered to provide a user-friendly and reliable relay of information, even in demanding environments.

Programmable LED indicator 5714

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Warning



This device is designed for connection to hazardous electric voltages.

Ignoring this warning can result in severe personal injury or mechanical damage.

To avoid the risk of electric shock and fire, the safety instructions of this manual must be observed and the guidelines followed.

The specifications must not be exceeded, and the device must only be applied as described in the following.

Prior to the commissioning of the device, this manual must be examined carefully.

Only qualified personnel (technicians) should install this device.

If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.



Warning

Until the device is fixed, do not connect hazardous voltages to the device.

The following operations should only be carried out on a disconnected device and under ESD-safe conditions:

Troubleshooting the device.

Repair of the device must be done by PR electronics A/S only.



Symbol identification



Triangle with an exclamation mark: Read the manual before installation and commissioning of the device in order to avoid incidents that could lead to personal injury or mechanical damage. Warning / demand. Potentially lethal situations.



The CE mark proves the compliance of the device with the essential requirements of the directives.



The double insulation symbol shows that the device is protected by double or reinforced insulation.

Safety instructions

Definitions

Hazardous voltages have been defined as the ranges: 75 to 1500 Volt DC, and 50 to 1000 Volt AC.

Technicians are qualified persons educated or trained to mount, operate, and also trouble-shoot technically correct and in accordance with safety regulations.

Operators, being familiar with the contents of this manual, adjust and operate the knobs or potentiometers during normal operation.

Receipt and unpacking

Unpack the device without damaging it and check whether the device type corresponds to the one ordered. The packing should always follow the device until this has been permanently mounted.

Environment

Avoid direct sun light, dust, high temperatures, mechanical vibrations and shock, and rain and heavy moisture. If necessary, heating in excess of the stated limits for ambient temperatures should be avoided by way of ventilation. All devices fall under Installation Category II, Pollution Degree 2, and Insulation Class II.

Mounting

Only technicians, who are familiar with the technical terms, warnings, and instructions in the manual and who are able to follow these, should connect the device. Should there be any doubt as to the correct handling of the device, please contact your local distributor or, alternatively,

PR electronics A/S www.prelectronics.com

Mounting and connection of the device should comply with national legislation for mounting of electric materials, i.e. wire cross section, protective fuse, and location. Descriptions of input / output and supply connections are shown in the block diagram and side label.

The following apply to fixed hazardous voltages-connected devices:

The max. size of the protective fuse is 10 A and, together with a power switch, it should be easily accessible and close to the device. The power switch should be marked with a label telling it will switch off the voltage to the device.

Year of manufacture can be taken from the first two digits in the serial number.

UL installation requirements

For use on a flat surface of a type 1 enclosure

Use 60/75°C copper conducters only

Enclosure rating (face only) acc. to UL50E	Type 4X
Max. ambient temperature	60°C
Max. wire size, pins 4146	AWG 30-16
Max. wire size, others	AWG 30-12
UL file number	E248256
Polay outputs:	

Relay outputs:

Max. voltage	250 VRMS
Max. current	2 A / AC
Max. AC power	500 VA
Max. current at 24 VDC	1 A

Calibration and adjustment

During calibration and adjustment, the measuring and connection of external voltages must be carried out according to the specifications of this manual. The technician must use tools and instruments that are safe to use.

Normal operation

Operators are only allowed to adjust and operate devices that are safely fixed in panels, etc., thus avoiding the danger of personal injury and damage. This means there is no electrical shock hazard, and the device is easily accessible.

Cleaning

When disconnected, the device may be cleaned with a cloth moistened with distilled water.

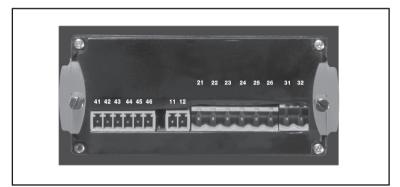
Liability

To the extent the instructions in this manual are not strictly observed, the customer cannot advance a demand against PR electronics A/S that would otherwise exist according to the concluded sales agreement.

Front and back layout



Picture 1: Front of 5714.



Picture 2: Back of 5714.

Programmable LED indicator 5714

- 4-digit 14-segment LED indicator
- Input for mA, V, potentiometer, Ohm, RTD and TC
- 2 relays and analog output
- Universal voltage supply
- Front key programmable

Application

- Display for digital readout of current, voltage, resistance, temperature or potentiometer signals.
- Process control with 2 pairs of potential-free relays and / or analogue output.
- For local readout in extremely wet atmospheres with a specially designed splash-proof cover.

Technical characteristics

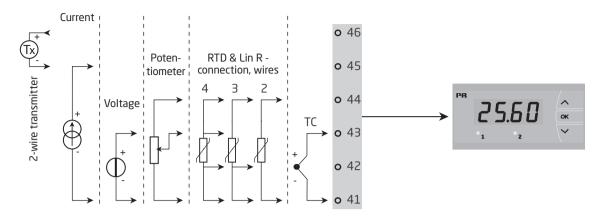
- 4-digit LED indicator with 13.8 mm 14-segment characters. Max. display readout -1999...9999 with programmable decimal point, relay ON / OFF indication.
- All operational parameters can be adjusted to any application by use of the front keys.
- 5714 is available fully-configured acc. to specifications ready for process control and visualisation.
- Help texts in eight languages can be selected via a menu item.
- Inputs, outputs, and supply are floating and galvanically separated.
- In versions with relay outputs the user can minimise the installation test time by activating / deactivating each relay independently of the input signal.

Mounting

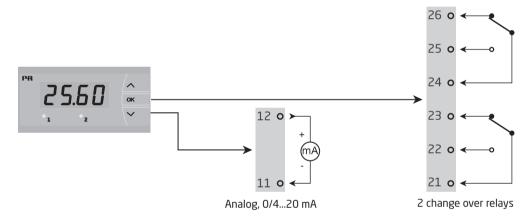
• To be mounted in front panel. The included rubber packing must be mounted between the panel cutout hole and the display front to obtain a protection degree of IP65 (type 4X). For extra protection in extreme environments, 5714 can be delivered with a speially designed splash-proof cover as accessory.

Applications

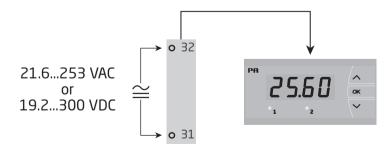
Input signals:



Output signals:



Supply:



Order

Туре	Version	
5714	Standard	: A
	2 relays	: B
	Analog output	: C
	Analog output and 2 relays	: D

NB! Please order the splash-proof cover seperately. Order No. 8335.

Electrical specifications

Environmental conditions:

Mechanical specifications:

Common specifications:

19.2...300 VDC

Туре	Internal power dissipation	Max. required power
5714A	2.2 W	2.5 W
5714B/C	2.7 W	3.0 W
5714D	3.2 W	3.5 W

Response time (0...90 %, 100...10 %), programmable:

Accuracy, the greater of the general and basic values:

General values			
Input type	Temperature coefficient		
All ≤ ±0.1% of reading		≤ ±0.01% of reading / °C	

Basic values			
Input type Basic accuracy		Temperature coefficient	
mA	≤ ±4 µA	≤ ±0.4 µA / °C	
Volt	≤ ±20 µV	≤ ±2 µV / °C	
Pt100	≤ ±0.2°C	≤ ±0.01°C / °C	
Linear resistance	≤ ±0.1°Ω	≤ ±0.01 Ω / °C	
Potentiometer	≤ ±0.1°Ω	≤ ±0.01 Ω / °C	
TC type: E, J, K, L, N, T, U	≤ ±1°C	≤ ±0.05°C / °C	
TC type: R, S, W3, W5, LR	≤ ±2°C	≤ ±0.2°C / °C	
TC type: B 85200°C	≤ ±4°C	≤ ±0.4°C / °C	
TC type: B 2001820°C	≤ ±2°C	≤ ±0.2°C / °C	

Auxiliary supply:

TC input

Туре	Min. value	Max. value	Standard
В	0°C	+1820°C	IEC 60584-1
E	-100°C	+1000°C	IEC 60584-1
J	-100°C	+1200°C	IEC 60584-1
K	-180°C	+1372°C	IEC 60584-1
L	-200°C	+900°C	DIN 43710
N	-180°C	+1300°C	IEC 60584-1
R	-50°C	+1760°C	IEC 60584-1
S	-50°C	+1760°C	IEC 60584-1
Т	-200°C	+400°C	IEC 60584-1
U	-200°C	+600°C	DIN 43710
W3	0°C	+2300°C	ASTM E988-90
W5	0°C	+2300°C	ASTM E988-90
LR	-200°C	+800°C	GOST 3044-84

Cold junction compensation (CJC) via internal sensor $\pm (2.0^{\circ}\text{C} + 0.4^{\circ}\text{C} * \Delta t)$

 Δt = internal temperature - ambient temperature

Sensor error detection, all TC types. Yes

Sensor error current:

RTD, linear resistance and potentiometer input

Input type	Min. value	Max. value	Standard
Pt10Pt1000 Ni50Ni1000	-200°C -60°C	+850°C +250°C	IEC 60751 DIN 43760
Cu10Cu100	-200°C	+260°C	$\alpha = 0.00427$
Lin. R	0 Ω	10000 Ω	-
Potentiometer	10 Ω	100 kΩ	-

Input for RTD types:

Pt10, Pt20, Pt50, Pt100, Pt200, PT250, Pt300, Pt400, Pt500, Pt1000

Ni50, Ni100, Ni120, Ni1000, Cu10, Cu20, Cu50, Cu100

Current input

Sensor error detection:

loop break 4...20 mA Yes

Voltage input

Outputs

Display

 Decimal point
 Programmable

 Digit height
 13.8 mm

 Display updating
 2.2 times / s

 Input outside input range is indicated by
 Explanatory text

Current output

Output limitation:

Relay outputs

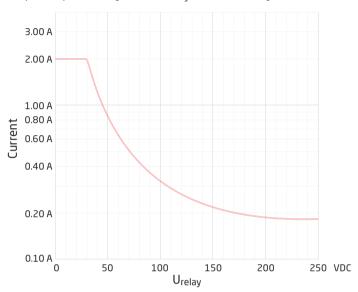
 Relay function
 Setpoint

 Hysteresis
 0...100%

 On and Off delay
 0...3600 s

Max. DC current, resistive load:

Graphic depiction of [1380 x U_{relay}^{-2} x 1.0085 U_{relay}^{-2}]:



Observed authority requirements

 EMC.
 2014/30/EU

 LVD.
 2014/35/EU

 RoHS.
 2011/65/EU

 UL, Standard for Safety.
 UL 508

EAC..... TR-CU 020/2011

Approvals

EU RO Mutual Recognition Type Approval MRA000000Z

DNV-GL, Ships & Offshore Standard for Certification No. 2.4

Sensor error detection / sensor error detection outside range

Sensor error check in 5714 variants			
Variant Configuration		Sensor error detection	
5714A	Always:	ON	
F714D	ERR1=NONE, ERR2=NONE:	OFF	
5714B	else:	ON	
F71.4C	O.ERR=NONE:	OFF	
5714C	else:	ON	
F714D	ERR1=NONE, ERR2=NONE, O.ERR=NONE:	OFF	
5714D	else:	ON	

Outside range readout (IN.LO, IN.HI): If the valid range of the A/D converter or the polynomial is exceeded			
Input	Range	Readout	Limit
	01 V / 0.21 V	IN.LO	< -25 mV
VOLT	UI V / U.ZI V	IN.HI	> 1.2 V
VOLT -	0.101/12.101/	IN.LO	< -25 mV
	010 V / 210 V	IN.HI	> 12 V
CUDD	020 mA / 420 mA	IN.LO	< -1.05 mA
CURR		IN.HI	> 25.05 mA
POTM	-	IN.LO	< -0.5%
		IN.HI	> 100.5%
TCMD	TC / DTD	IN.LO	< temperature range -2°C
TEMP	TC / RTD	IN.HI	> temperature range +2°C
	0800 ohm	IN.LO	< 0 ohm
LIN. R		IN.HI	> 1 kohm
LIIV. K	010 kohm	IN.LO	< 0 ohm
		IN.HI	> 15 kohm

Sensor error detection (SE.BR, SE.SH)				
Input	Range	Readout	Limit	
CURR	Loop break (420 mA)	SE.BR	<= 3.6 mA; > = 21 mA	
TC TEMP RTD, 2-, 3- & 4-wire No SE.SH for Cuxx, Pt10, Pt20 & Pt50-	SE.BR	> ca. 750 kohm / (1.25 V)		
	RTD, 2-, 3- & 4-wire	SE.BR	> 12 kohm	
	No SE.SH for Cuxx, Pt10, Pt20 & Pt50-	SE.SH	< 15 ohm	
LIN. R	0800 ohm	SE.BR	> 875 ohm	
	010 kohm	SE.BR	> 12 kohm	

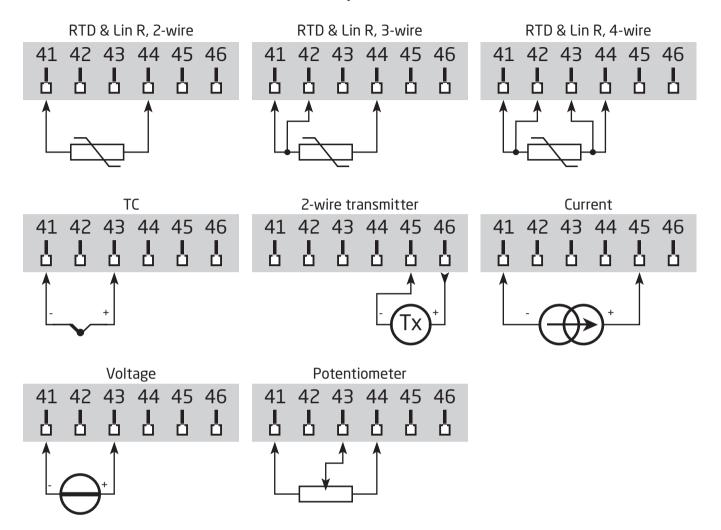
Display readout below min. / above max. (-1.9.9.9, 9.9.9.9)					
Input	Range	Readout	Limit		
CURR	A.II	-1.9.9.9	Display readout <-1999		
VOLT	All	9.9.9.9	Display readout >9999		
LIN. R	AII	-1.9.9.9	Display readout <-1999		
		9.9.9.9	Display readout >9999		
POTM	-	-1.9.9.9	Display readout <-1999		
		9.9.9.9	Display readout >9999		

Readout at hardware error				
Error search	Readout	Cause		
Test of internal communication μC / ADC	HW.ER	Permanent error in ADC		
Test of internal CJC sensor	CJ.ER	CJC sensor defect		
Check-sum test of the configuration in RAM	RA.ER	Error in RAM		
Check-sum test of the configuration in EEPROM	EE.ER	Error in EEPROM		

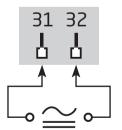
[!] Error indications in the display blink once a second. The help text explains the error.

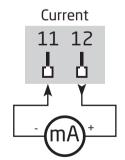
Connections

Inputs:

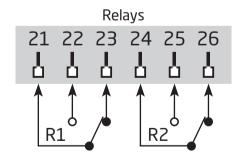


Supply:

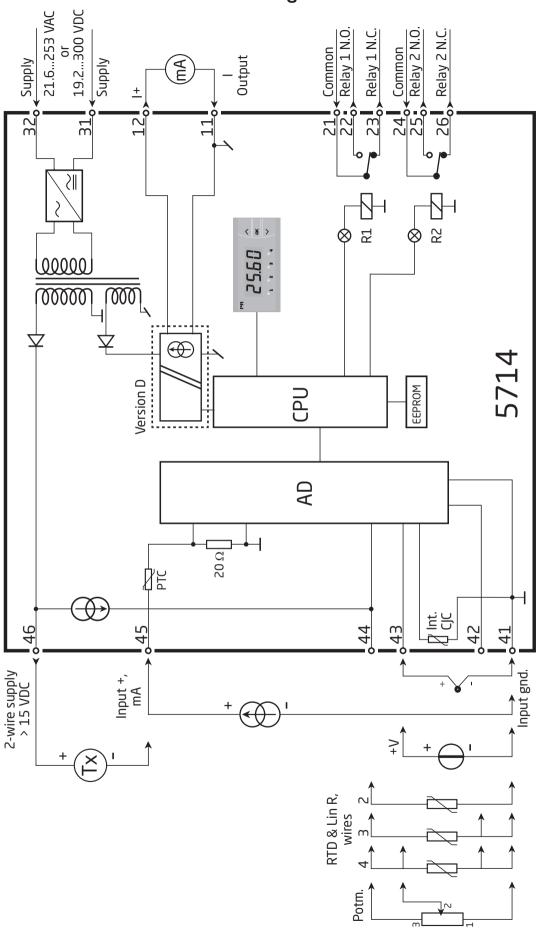


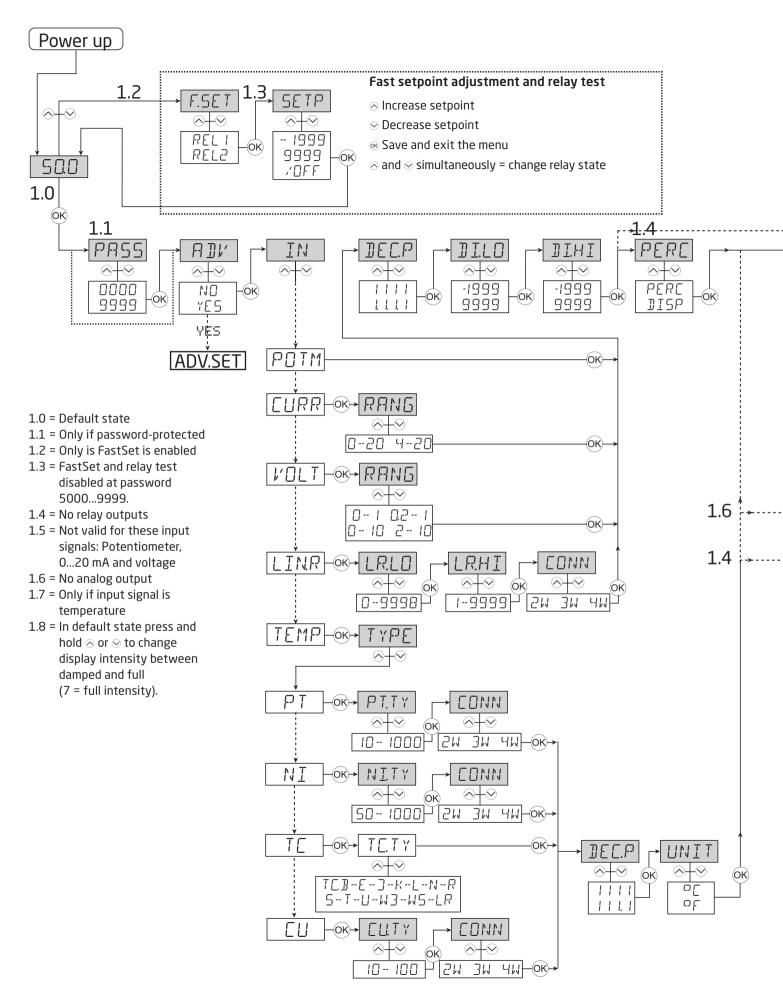


Output:



Block diagram





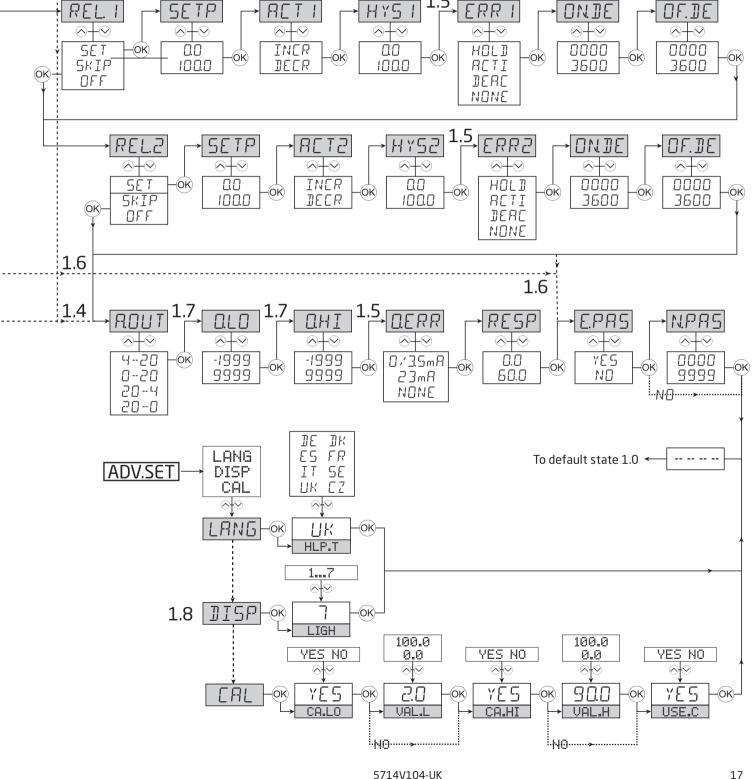
Routing diagram

If no keys are activated for 2 minutes the display returns to default state 1.0 without saving configuration changes.

- ⊗ Increase value / choose next parameter.
- ⊗ Decrease value / choose previous parameter.
- ® Accept the chosen parameter and go to the next menu.

Hold

Back to previous menu / return to menu 1.0 without saving.



Scrolling help text

			_	•		
Display i	in de	efault state xxxx, hardware error:		DI.HI		
		SENSOR WIRE BREAKAGE		XXXX	>	DISPLAY READOUT HIGH
				^^^^	/	טוטו כאו ווכאטסטו ווומוו
	>					
IN.HI	>	INPUT OVERRANGE		REL.U		
IN.LO	>	INPUT UNDERRANGE		PERC	>	SET RELAY IN PERCENTAGE
9.9.9.9	>	DISPLAY OVERRANGE		DISP	>	SET RELAY IN DISPLAY UNITS
-1.9.9.9				5151		Ser neem in bisi em omis
				TVDC		
		HARDWARE ERROR		TYPE		
		EEPROM ERROR - CHECK CONFIGURATION		CU		SELECT CU SENSOR TYPE
RA.ER	>	RAM MEMORY ERROR		PT	>	SELECT PT SENSOR TYPE
		CJC SENSOR ERROR		NI		SELECT NI SENSOR TYPE
CJ.CIX		cje senson ennon		TC		SELECT TC SENSOR TYPE
C++	/C	blad).		I C	/	SCCCCT TC SCNSOR TTFC
Fastset ((Ena	blea):				
F.SET				CU.TY		
REL1	>	FAST SET MENU -		10	>	SELECT CU SENSOR TYPE
REL2	>	SELECT RELAY		20	>	SELECT CU SENSOR TYPE
				50		SELECT CU SENSOR TYPE
CCTD						
SETP				100	>	SELECT CU SENSOR TYPE
XXXX	>	RELAY SETPOINT - PRESS OK TO SAVE				
				PT.TY		
Fastset ((Disa	abled):		10	>	SELECT PT SENSOR TYPE
SETP	(20		SELECT PT SENSOR TYPE
		DEL AV SETDOINT DEAD ONLY				
XXXX	>	RELAY SETPOINT - READ ONLY		50		SELECT PT SENSOR TYPE
				100		SELECT PT SENSOR TYPE
Configur	ratio	n menus:		200	>	SELECT PT SENSOR TYPE
ADV				250	>	SELECT PT SENSOR TYPE
	>	ENTER ADVANCED SETUP MENU?		300		SELECT PT SENSOR TYPE
	/	CIVICK ADVANCED SCIOF MENO:				
NO				400		SELECT PT SENSOR TYPE
				500	>	SELECT PT SENSOR TYPE
PASS				1000	>	SELECT PT SENSOR TYPE
xxxx	>	SET CORRECT PASSWORD				
				NI.TY		
IN				50	`	SELECT NI SENSOR TYPE
		TOVE CHIEDED DV LICED IN DDCCCT				
	>	TEXT ENTERED BY USER IN PRESET		100		SELECT NI SENSOR TYPE
CURR	>	CURRENT INPUT		120	>	SELECT NI SENSOR TYPE
VOLT	>	VOLTAGE INPUT		1000	>	SELECT NI SENSOR TYPE
	>	POTENTIOMETER INPUT				
		LINEAR RESISTANCE INPUT		CONN		When Cu, Pt and Ni sensor is selected
				2W		SELECT 2-WIRE SENSOR CONNECTION
TEMP	>	TEMPERATURE SENSUR INPUT				
				3W	>	SELECT 3-WIRE SENSOR CONNECTION
RANG		When current selected:		4W	>	SELECT 4-WIRE SENSOR CONNECTION
0-20	>	INPUT RANGE IN mA				
4-20	>	INPUT RANGE IN mA		TC.TY		
. 20	-	or to are arribe		TC. B	>	SELECT TC SENSOR TYPE
DANG		1 //h				
RANG		When voltage selected:		TC. E	>	SELECT TC SENSOR TYPE
	>	INPUT RANGE IN VOLT		TC. J		SELECT TC SENSOR TYPE
2-10	>	INPUT RANGE IN VOLT		TC. K	>	SELECT TC SENSOR TYPE
0.0-1	>	INPUT RANGE IN VOLT		TC. L	>	SELECT TC SENSOR TYPE
	>	INPUT RANGE IN VOLT		TC. N	>	SELECT TC SENSOR TYPE
U.L 1		IN OT MINGE IN VOCI				
DCC -				TC. R		
DEC.P				TC. S	>	SELECT TC SENSOR TYPE
	>	DECIMAL POINT POSITION		TC. T		SELECT TC SENSOR TYPE
111.1	>	DECIMAL POINT POSITION		TC. U	>	SELECT TC SENSOR TYPE
	>			TC.W3	>	
	>			TC.W5	>	
T.TTT	.,	Deci IACT OINT LOSITION		TC.W3	>	SELECT TO SENSOR TYPE
1010				I C.LK	/	SELECT IC SENSOR LIPE
LR.LO						
XXXX	>	SET RESISTANCE VALUE LOW		DEC.P		When temperature selected
				1111	>	DECIMAL POINT POSITION
LR.HI				111.1	>	DECIMAL POINT POSITION
	>	SET RESISTANCE VALUE HIGH				
^^^	,	Set hesis made vacot man		UNIT		
DLLO						DICDLAY AND DOLAY COTUDIN COLOUR
DI.LO		DISDLAY DSADOUTE : ST.		°C	>	5.5. 6
XXXX	>	DISPLAY READOUT LOW		°F	>	DISPLAY AND RELAY SETUP IN FAHRENHEIT

REL1 SET SKIP	> >	ENTER RELAY 1 SETUP SKIP RELAY 1 SETUP	O.HI XXXX	>	DISPLAY VALUE FOR OUTPUT HIGH
OFF SETP xxxx	>	RELAY 1 DISABLED RELAY SETPOINT	O.ERR 23 mA 3,5 mA OmA NONE	>	NAMUR NE43 UPSCALE AT ERROR NAMUR NE43 DOWNSCALE AT ERROR DOWNSCALE AT ERROR
ACT1 INCR DECR	> >	ACTIVATE AT INCREASING SIGNAL ACTIVATE AT DECREASING SIGNALL	RESP XXX.X	>	UNDEFINED OUTPUT AT ERROR ANALOGUE OUTPUT RESPONSE TIME IN SECONDS
HYS1 xxxx	>	RELAY HYSTERESIS	E.PAS NO	>	ENABLE PASSWORD PROTECTION
ERR1 HOLD ACTI DEAC NONE	>	HOLD RELAY AT ERROR ACTIVATE RELAY AT ERROR DEACTIVATE RELAY AT ERROR UNDEFINED STATUS AT ERROR	YES N.PAS XXXX	>	SELECT NEW PASSWORD
ON.DE xxxx	>	RELAY ON-DELAY IN SECONDS	ADV ME LANG DISP	> >	ENTER LANGUAGE SETUP ENTER DISPLAY SETUP
OF.DE xxxx	>	RELAY OFF-DELAY IN SECONDS	CAL	>	PERFORM PROCESS CALIBRATION
REL2 SET SKIP OFF	> >	ENTER RELAY 2 SETUP SKIP RELAY 2 SETUP RELAY 2 DISABLED	HLP.T DE DK ES	> >	DE - WAEHLE DEUTSCHEN HILFETEXT DK - VAELG DANSK HJAELPETEKST ES - SELECCIONAR TEXTO DE AYUDA EN ESPANOL
SETP xxxx	>	RELAY SETPOINT	FR IT		FR - SELECTION TEXTE D'AIDE EN FRANCAIS IT - SELEZIONARE TESTI DI
ACT2 INCR DECR	> >	ACTIVATE AT INCREASING SIGNAL ACTIVATE AT DECREASING SIGNAL	SE UK CZ		AIUTO ITALIANI SE - VALJ SVENSK HJALPTEXT UK - SELECT ENGLISH HELPTEXT CZ - VYBER CESKOU NAPOVEDU
HYS2 xxxx	>	RELAY HYSTERESIS	LIGH xxxx	>	ADJUST DISPLAY LIGHT INTENSITY
ERR2 HOLD ACTI	> >	THE THE THE THE PARTY OF THE	CA.LO YES	>	CALIBRATE INPUT LOW TO PROCESS VALUE?
DEAC NONE	>	DEACTIVATE RELAY AT ERROR UNDEFINED STATUS AT ERROR	NO		
ON.DE	>	RELAY ON-DELAY IN SECONDS	YES	>	CALIBRATE INPUT HIGH TO PROCESS VALUE?
OF.DE xxxx	>	RELAY OFF-DELAY IN SECONDS	VAL.L	>	SET VALUE FOR LOW CALIBRATION
A.OUT 0-20 4-20 20-0 20-4		OUTPUT RANGE IN MA OUTPUT RANGE IN MA OUTPUT RANGE IN MA OUTPUT RANGE IN MA	VAL.H xxxx	>	POINT SET VALUE FOR HIGH CALIBRATION POINT
O.LO xxxx	>	DISPLAY VALUE FOR OUTPUT LOW	USE.C YES NO	>	USE PROCESS CALIBRATED VALUES?

Configuration / operating the function keys

Documentation for routing diagram.

In general

When configuring the display you are guided through all parameters, you can choose the settings which fit the application. For each menu there is a scrolling help text which is automatically shown in the display, this starts after 5 seconds if no key has been activated.

Configuration is carried out by using the 3 function keys.

- will increase the numerical value or choose the next parameter.
- will decrease the numerical value or choose the previous parameter.
- will accept the chosen value and end the menu.

If a function does not exist in the display all parameters are skipped to make the configuration as simple as possible. Once the configuration has been entered the display will show "----".

Pressing and holding \odot will return to the previous menu or return to the default state (1.0) without saving the changed values or parameters.

If no key is activated for 2 minutes, the display will return to the default state (1.0) without saving the changed values or parameters.

Further explanations

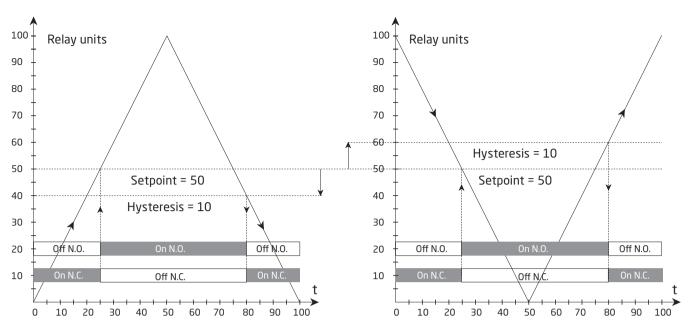
Fast setpoint adjustment and relay test: These menus allow you to change the set point quickly and to check the operation of the relays.

Pressing \otimes and \otimes at the same time will change the state of the relay - this change is indicated by the diodes on the display. Pressing \otimes will save the set point change.

Holding down ⊕ for more than 0.5 seconds will return the unit to the default state without changing the set point.

Password protection: Using a password will stop access to the menu and parameters. There are two levels of password protection. Passwords between 0000...4999 allow access to the fast set point adjustment and relay test. (Using this password stops access to all other parts of the menu). Passwords between 5000...9999 stop access to all parts of the menu, fast set point and relay test. (Current set point is still shown). By using the master password 2008, all configuration menus are available.

Graphic depiction of the relay function setpoint



Relay action: Increasing

Relay action: Decreasing

Document history

The following list provides notes concerning revisions of this document.

Rev. ID	Date	Notes
104	19/33	Relay data updated, graph with resistive loads
		inserted.
		EU-RO marine approval added.

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