Product manual 5715 Programmable LED indicator















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

No. 5715V103-UK

From serial no: 191083001



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.



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 deliver the safest signals by validating our products against the toughest safety standards. Through our



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 5715

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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.





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



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



The UKCA mark proves the compliance of the device with the essential requirements of the UK regulations.



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.

The device must be installed in pollution degree 2 or better.

The device is designed to be safe at least under an altitude up to 2000 m.

The device is designed for indoor use.

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.

Stranded wire should be installed with an insulation stripping length of 5 mm or via a suitable insulated terminal such as a bootlace ferrule.

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.

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.

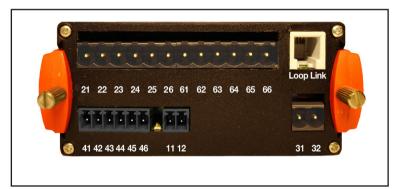
Liability

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 5715.



Picture 2: Back of 5715.

Programmable LED indicator 5715

- 4-digit 14-segment LED display
- Input for mA, V, potentiometer, Ohm, RTD and TC
- 4 relays and analog output
- Universal supply
- Programmable via front keys and PC

Application

- Display for digital readout of current / voltage / resistance / temperature or 3-wire potentiometer signals.
- Process control with 4 pairs of potential-free change-over relays and analog output.
- For tank level control, with the possibility of customer linearisation ensuring correct level measurement and control in non-linear tanks.

Technical characteristics

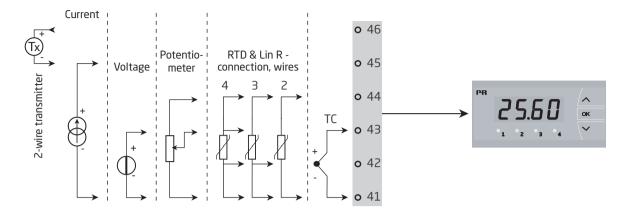
- 4-digit LED indicator with 13.8 mm 14-segment characters. Max. display readout -1999...9999 with programmable decimal point and relay ON / OFF indication.
- All standard operational parameters can be adjusted to any application by way of the front function keys. When programming is carried out by way of a PC and the configuration program PReset, additional configuration options are available, such as customer-defined linearisation and special input signals.
- Help texts in eight languages can be selected via a menu item.
- A menu item allows the user to minimise the installation test time for the relay outputs by activating/deactivating each relay independently of the input signal.
- 2.3 kVAC galvanic isolation between input, output and supply.

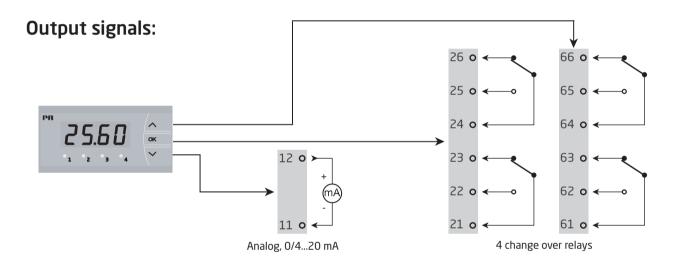
Mounting / installation

• To be mounted in panel front. 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, PR 5715 can be delivered with a specially designed splash-proof cover as accessory.

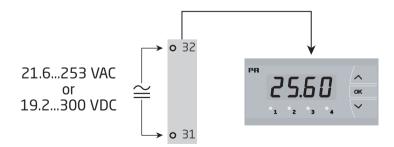
Applications

Input signals:





Supply:



Order

Туре	Version	
5715	4 relays	: B
	Analog output and 4 relays	: D

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

Electrical specifications

Environmental conditions:

Mechanical specifications:

 Vibration.
 IEC 60068-2-6

 2...13.2 Hz
 ±1 mm

 13.2...100 Hz
 ±0.7 g

Common specifications:

19.2...300 VDC

Consumption:

Туре	Internal power dissipation	Max. required power
5715B	3.0 W	3.3 W
5715D	3.5 W	3.8 W

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

Accuracy, the greater of the general and basic values:

General values			
Input type	Absolute accuracy	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
T	-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

 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

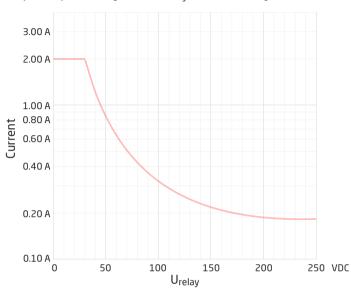
Current output

Output limitation:

Relay outputs

Max. DC current, resistive load:

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



Observed authority requirements

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

Approvals

Sensor error detection / sensor error detection outside range

Sensor error check in 5715 variants			
Variant	Configuration	Sensor error detection	
E71 ED	ERR1, ERR2, ERR3 and ERR4 = NONE	OFF	
5715B	else:	ON	
F71 FD	ERR1, ERR2, ERR3 and ERR4=NONE, O.ERR=NONE	OFF	
5715D	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
DOTM		IN.LO	< -0.5%
POTM	-	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	
TEMP	TC	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	

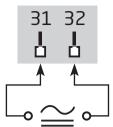
Display readout below min. / above max. (-1.9.9.9, 9.9.9.9)			
Input	Range	Readout	Limit
CURR /	All	-1.9.9.9	Display readout <-1999
VOLT / LIN. R	All	9.9.9.9	Display readout >9999
DOTM	-1.9.9.9	Display readout <-1999	
POTM	-	9.9.9.9	Display readout >9999

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		

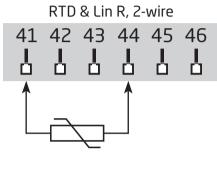
[!] Error indications in the display blink once a second. The help text explains the error.

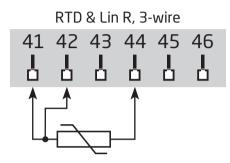
Connections

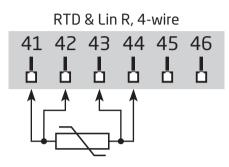
Supply:

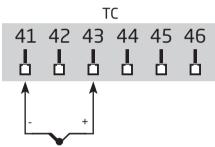


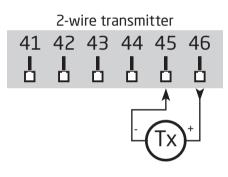
Inputs:

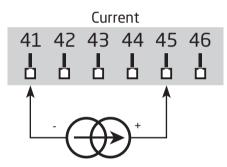


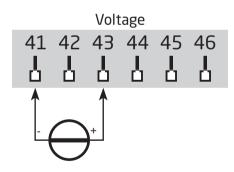


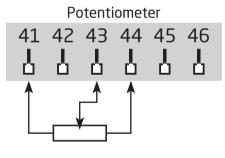




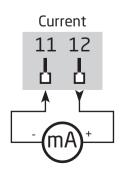


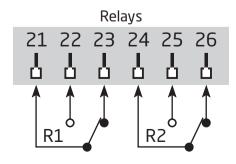


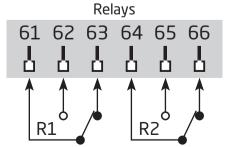




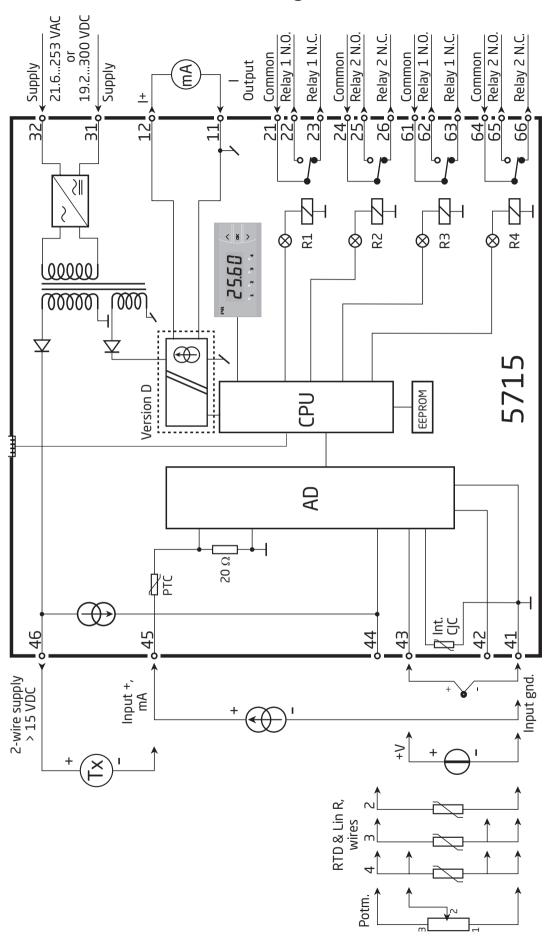
Output:

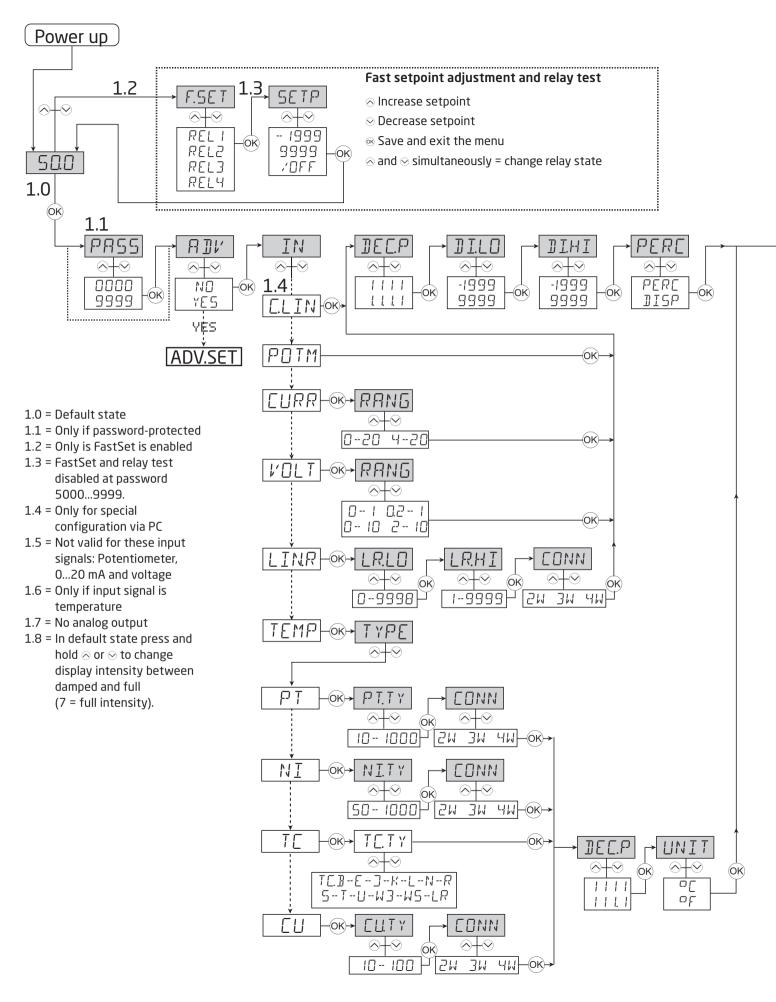






Block diagram





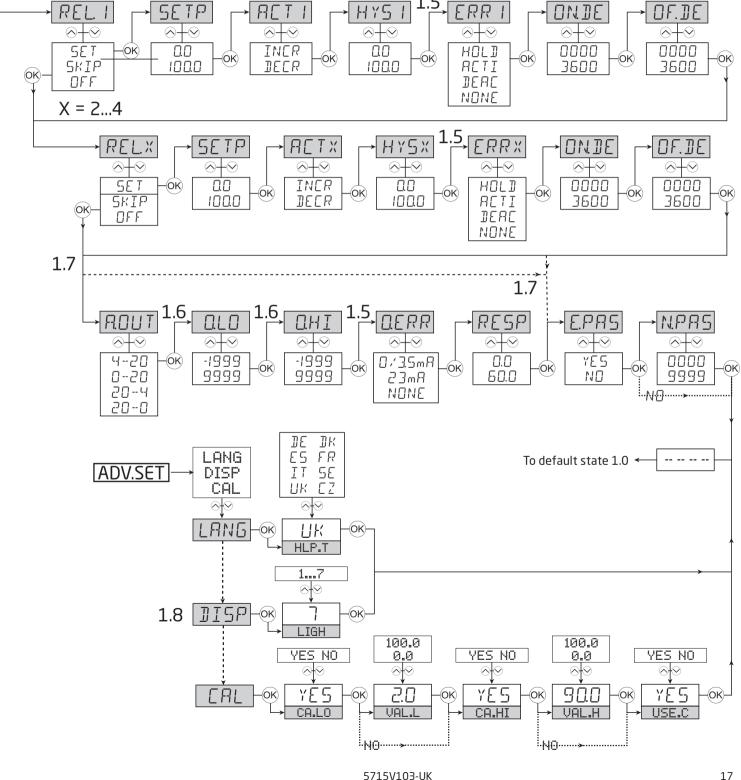
Routing diagram

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

		3.5	о.р		
Display	in de	efault state xxxx, hardware error:	DI.LO		
SE.BR		SENSOR WIRE BREAKAGE	XXXX	>	DISPLAY READOUT LOW
SE.SH	>	SENSOR SHORT CIRCUIT			
IN.HI	>	INPUT OVERRANGE	DI.HI		
IN.LO			XXXX	>	DISPLAY READOUT HIGH
9.9.9.9					
-1.9.9.9			REL.U		
		HARDWARE ERROR	PERC	>	SET RELAY IN PERCENTAGE
EE.ER		EEPROM ERROR - CHECK CONFIGURATION	DISP	>	
RA.ER		RAM MEMORY ERROR	0131		SET RECERT IN DIST CAR SINTS
CI.ER			TYPE		
CJ.EK	/	CJC SENSOR ERROR	CU	>	SELECT CU SENSOR TYPE
C44		LL-AV.	PT		SELECT PT SENSOR TYPE
Fastset	t (Ena	Diea):	NI		SELECT NI SENSOR TYPE
F.SET		CACT CCT MCNU	TC	>	
REL1		FAST SET MENU -	10		Secret Te Selvson TTT e
REL2	>	SELECT RELAY	CU.TY		
REL3			10	_	SELECT CU SENSOR TYPE
REL4					SELECT CU SENSOR TYPE
			20		SELECT CU SENSOR TYPE SELECT CU SENSOR TYPE
SETP			50		
XXXX	>	RELAY SETPOINT - PRESS OK TO SAVE	100	>	SELECT CU SENSOR TYPE
			DTTV		
Fastset	t (Disa	abled):	PT.TY		CELECT DE CENCOD EVDE
SETP			10		SELECT PT SENSOR TYPE
XXXX	>	RELAY SETPOINT - READ ONLY	20	>	
			50	>	500000000000000000000000000000000000000
Configu	ıratio	n menus:	100	>	
ADV			200	>	
YES	>	ENTER ADVANCED SETUP MENU?	250		SELECT PT SENSOR TYPE
NO			300		SELECT PT SENSOR TYPE
			400		SELECT PT SENSOR TYPE
PASS			500		SELECT PT SENSOR TYPE
XXXX	>	SET CORRECT PASSWORD	1000	>	SELECT PT SENSOR TYPE
IN			NI.TY		
C.LIN*	>	TEXT ENTERED BY USER IN PRESET	50	>	SELECT NI SENSOR TYPE
CURR		CURRENT INPUT	100	>	
VOLT		VOLTAGE INPUT	120		SELECT NI SENSOR TYPE
POTM		POTENTIOMETER INPUT	1000	>	SELECT NI SENSOR TYPE
LIN.R	>				
TEMP	>	TEMPERATURE SENSOR INPUT	CONN		When Cu, Pt and Ni sensor is selected
			2W		SELECT 2-WIRE SENSOR CONNECTION
RANG		When current selected:	3W		SELECT 3-WIRE SENSOR CONNECTION
0-20	>	INPUT RANGE IN mA	4W	>	SELECT 4-WIRE SENSOR CONNECTION
4-20	>	INPUT RANGE IN mA			
3		· · · · · · · · · · · · · · · · · · ·	TC.TY		
RANG		When voltage selected:	TC. B	>	SELECT TC SENSOR TYPE
0-10	>	INPUT RANGE IN VOLT	TC. E	>	SELECT TC SENSOR TYPE
2-10	>	INPUT RANGE IN VOLT	TC. J	>	
0.0-1	>	INPUT RANGE IN VOLT	TC. K	>	SELECT TC SENSOR TYPE
0.2-1	>	INPUT RANGE IN VOLT	TC. L	>	SELECT TC SENSOR TYPE
O.L 1		or indicate work	TC. N	>	SELECT TC SENSOR TYPE
DEC.P			TC. R	>	SELECT TC SENSOR TYPE
1111	>	DECIMAL POINT POSITION	TC. S	>	SELECT TC SENSOR TYPE
111.1	>	DECIMAL POINT POSITION	TC. T	>	SELECT TC SENSOR TYPE
11.11	>	DECIMAL POINT POSITION DECIMAL POINT POSITION	TC. U	>	SELECT TC SENSOR TYPE
1.111	>	DECIMAL POINT POSITION DECIMAL POINT POSITION	TC.W3	>	SELECT TC SENSOR TYPE
T.T.T.T	/	DECIMALI OINTI OSITION	TC.W5	>	SELECT TC SENSOR TYPE
LR.LO			TC.LR	>	SELECT TC SENSOR TYPE
	>	SET RESISTANCE VALUE LOW			
XXXX	/	SET RESISTANCE VALUE LUW	DEC.P		When temperature selected
тр ш			1111	>	DECIMAL POINT POSITION
LR.HI		SET DESISTANCE VALUE LUCU	111.1	>	DECIMAL POINT POSITION
XXXX	>	SET RESISTANCE VALUE HIGH			

UNIT °C °F	> >	DISPLAY AND RELAY SETUP IN CELSIUS DISPLAY AND RELAY SETUP IN FAHRENHEIT	O.LO xxxx	>	DISPLAY VALUE FOR OUTPUT LOW
REL1			O.HI XXXX	>	DISPLAY VALUE FOR OUTPUT HIGH
SET SKIP OFF	>	ENTER RELAY 1 SETUP SKIP RELAY 1 SETUP RELAY 1 DISABLED	3,5 mA	>	NAMUR NE43 UPSCALE AT ERROR NAMUR NE43 DOWNSCALE AT ERROR
SETP XXXX	>	RELAY SETPOINT	OmA NONE		DOWNSCALE AT ERROR UNDEFINED OUTPUT AT ERROR
ACT1 INCR DECR	> >	ACTIVATE AT INCREASING SIGNAL ACTIVATE AT DECREASING SIGNALL	RESP xxx.x	>	ANALOG OUTPUT RESPONSE TIME IN SECONDS
HYS1 xxxx	>	RELAY HYSTERESIS	E.PAS NO YES	>	ENABLE PASSWORD PROTECTION
ERR1 HOLD ACTI		HOLD RELAY AT ERROR ACTIVATE RELAY AT ERROR	N.PAS xxxx	>	SELECT NEW PASSWORD
DEAC NONE	> >		ADV ME		ENTER LANGUAGE SETUP
ON.DE			DISP		ENTER CANGUAGE SETUP ENTER DISPLAY SETUP
xxxx	>	RELAY ON-DELAY IN SECONDS	CAL	>	PERFORM PROCESS CALIBRATION
OF.DE XXXX	>	RELAY OFF-DELAY IN SECONDS	HLP.T DE DK		DE - WAEHLE DEUTSCHEN HILFETEXT DK - VAELG DANSK HJAELPETEKST
RELX (X			ES		ES - SELECCIONAR TEXTO DE
SET SKIP		ENTER RELAY X SETUP SKIP RELAY X SETUP	FR	>	AYUDA EN ESPANOL FR - SELECTION TEXTE D'AIDE
OFF	>	RELAY X DISABLED	IT	>	EN FRANCAIS IT - SELEZIONARE TESTI DI
SETP XXXX	>	RELAY SETPOINT	SE	>	AIUTO ITALIANI SE - VALJ SVENSK HJALPTEXT
			UK	>	UK - SELECT ENGLISH HELPTEXT
ACTX () INCR		4) ACTIVATE AT INCREASING SIGNAL	CZ	>	CZ - VYBER CESKOU NAPOVEDU
DECR	>	ACTIVATE AT DECREASING SIGNAL	LIGH xxxx	>	ADJUST DISPLAY LIGHT INTENSITY
HYSX ()		4) RELAY HYSTERESIS	CA.LO		
			YES	>	CALIBRATE INPUT LOW TO PROCESS VALUE?
ERRX () HOLD		4) HOLD RELAY AT ERROR	NO		VACUE!
ACTI		ACTIVATE RELAY AT ERROR	C		
DEAC NONE		DEACTIVATE RELAY AT ERROR UNDEFINED STATUS AT ERROR	CA.HI YES	>	CALIBRATE INPUT HIGH TO PROCESS VALUE?
ON.DE	>	RELAY ON-DELAY IN SECONDS	NO		
OF.DE			VAL.L XXXX	>	SET VALUE FOR LOW CALIBRATION POINT
A.OUT	>	RELAY OFF-DELAY IN SECONDS	VAL.H	>	SET VALUE FOR HIGH CALIBRATION POINT
0-20		OUTPUT RANGE IN mA		•	
4-20 20-0		OUTPUT RANGE IN MA	USE.C YES	\	USE PROCESS CALIBRATED VALUES?
20-0 20-4	>	OUTPUT RANGE IN mA OUTPUT RANGE IN mA	NO NO	/	OPET MOCESS CHEIDMALED AMERES!

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.

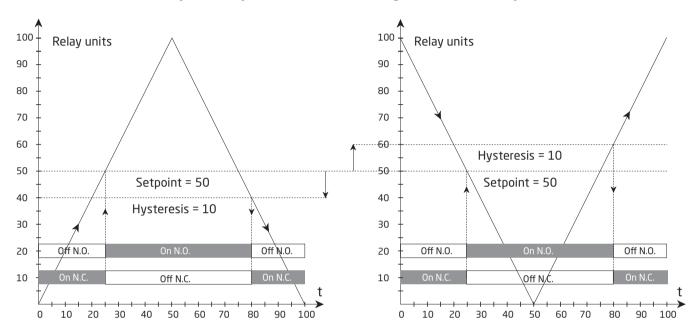
Password protection: Using a password will stop access to the menu and parameters. There are two levels of password protection. Passwords between 0000...4999 allow access to the fast set point adjustment and relay test. (Using this password stops access to all other parts of the menu). Passwords between 5000...9999 stop access to all parts of the menu, fast set point and relay test. (Current set point is still shown). If the configured password is not known, please contact PR electronics support - www.prelectronics.com/contact.

Programming via PC

By way of PReset, a simple yet sophisticated PC program, all operational parameters in the 5715 can be quickly configured to suit any application. Furthermore, the PC configuration allows you to set up a customer-defined input type for the input signals current, voltage, resistance and potentiometer. This input type can be defined with special input spans, e.g. 5...12 mA, and customer-defined linearisation with or without offset.

The customer-defined input type is saved in the 5715 in the input menu <code>LLIN</code>. If the display is later configured by way of the front keys for e.g. temperature input, the input type <code>LLIN</code> containing all the original parameters can be subsequently selected. The PC configuration is sent to the display by way of the communications interface USB Loop Link.

Graphic depiction of the relay function setpoint



Relay action: Increasing Relay action: Decreasing

Installation instructions

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										
Max. ambient temperature										
Max. wire size, pins 4146										
Max. wire size, others										
UL file number										
Relay outputs:										
Max. voltage										
Max. current										
Max. AC power										
Max. current at 24 VDC										

Document history

The following list provides notes concerning revisions of this document.

Rev. ID	Date	Notes
103	2208	Relay data updated, graph with resistive loads
		inserted.
		UKCA approval added.

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