‡-DIN DUAL COLOUR DISPLAY DC PROCESS INDICATOR CONCISE PRODUCT MANUAL (59229-4)

OPERATING MODE

NOTE: Set all Configuration Mode and Program Mode Parameters before starting normal operations.

Front Panel

ON when Alarm 1 is active ON when Alarm 2 is active Primary Secondary Display Display Down key eset kev Scroll key Program key Key/Display/Indicator Function Down key (1) In Edit Mode, decrements the flashing digit in the Primary Display. Scroll key (►) Puts Indicator into Edit Mode; in Edit Mode, selects digit to be altered (selected digit is flashing) in Primary Display. Wrap-around occurs from right-most digit to left-most digit Program Key (PGM) Selects parameter to be viewed/edited. In Edit Mode, confirms changed parameter value Reset key (RST) If the process variable is displayed, resets the latched Alarm 1. If the Maximum

	(High) Value, Minimum (Low) Value or Alarm 1 Elapsed Time is displayed, resets the displayed parameter.
Down (Ƴ) and Scroll (≽) keys	If pressed simultaneously in Edit Mode, will abort the Edit operation and will restore the parameter to its initial value.
Primary Display	Normally displays the process variable value. Displays other Operation Mode parameters when the Program (PGM) key is used. If the Help Facility is enabled (see Subsection), this display shows the parameter description for three seconds before displaying the parameter value.
Secondary Display	Shows a single-character identifier for the parameter value being displayed (blank for process variable).
OP1 indicator	ON when Alarm 1 is active.
OP2 indicator	ON when Alarm 2 is active.

Parameter Sequence





Editing the Displayed Parameter (Edit Mode)

() Select required parameter display.



Next digit flashes

(5) Repeat Steps 3 and 4 for each digit, as required.

(6) Confirm new value or Abort Edit operation

Program Mode Parameter Sequence

Description	Adjustment Range
Scaling Point 1: The first sensor input value point (expressed as a percentage of input span) which is used to establish a curve for scaling sensor input values into engineering unit values.	0.00% to 100.00% of input span
Display Point 1: The engineering unit value corresponding to Scaling Point 1.	-19999 to 99999
Scaling Point 2: The second sensor input value point (expressed as a percentage of input span) which is used to establish a curve for scaling sensor input values into engineering unit values.	0.00% to 100.00% of input span
Display Point 2: The engineering unit value corresponding to Scaling Point 2.	-19999 to 99999
In be continued up to a total of 10 Scaling Points and 10 Disp he value 100.0%; this will be the final Scaling Point/Display F s Scaling Point $1 \le$ Scaling Point $2 \le$ Scaling Point 3 etc.	
Decimal Point Position: Defines the decimal point position for displayed process variable and alarm values.	0 to 0.0000
Re-transmission Scale Minimum: The lower end of the linear scale for the re-transmission output, expressed as the value corresponding to the minimum output signal.	-19999 to 99999
Re-transmission Scale Maximum: The upper end of the linear scale for the re-transmission output, expressed as the value corresponding to the maximum output signal.	-19999 to 99999
Process Variable Offset: Corrects a known offset of the input in order to display more accurately the process value.	-19999 to 99999
Input Filter Time Constant: Filters the input over a user-defineable time period to minimise the effect on the process variable of any extraneous impulses	0,0 (OFF) to 100.0
Communications Address; The unique serial communications address of the instrument.	1 to 99
Baud Rate: Serial communications speed	1200, 2400, 4800 or 9600
Display Colour Change: Defines the colour of the primary and secondary displays prior to/after the preset value (e.g. Alarm level) is reached.	rEd Red Green Green
	Green to Red rd_Gn_Red to Green
Alarm Lock: Enables/disables the changing of alarm values via the front panel.	En Enabled
Help Prompt: Determines whether the Primary Display shows the parameter description for 3 seconds before a parameter value is shown.	HLP У Yes HLP П No

NOTE 1: Only appears if relevant option fitted and configured.

For information on the serial communications option, consult your supplier.

INSTALLATION

All installation work should be performed only by personnel who are technically competent and authorised to do so. Electrical Regulations regarding electrical installation & safety must be observed.

Panel-Mounting

The mounting panel must be rigid and may be up to 6mm (0.25 inches) thick. The cut-out required for the Indicator is shown on the right. Several Indicators may be mounted side-by-side in a multiple installation for which the cut-out width (for n Indicators) is (96n - 4) millimetres. The panel-mounting procedure is shown below





Hold Indicator firmly in position (apply pressure to bezel only)

Rear Terminals





🛛 PEn 🛛 🧧 Op tot k Tot the for ex SPECIFICATION DISPLAY Red/green, 7-segment LED, 5-digit primary display, 1-digit secondary display. 18mm (0.71in) primary display, 7mm (0.3in) secondary display. SENSOR INPUT Accuracy: Typically ±0.01% of span; ±0.05% max. Sample Rate: Every 100mS. Resolution: 14 bits Impedance: 20mA range:10 Ω , 50mA range:1 Ω ; V ranges: greater than 950K Ω On 4 - 20mA, 10 - 50mA, 1 - 5V and 2 - 10V input ranges only; detected within two seconds. All alarms become active. Sensor Break Detection: DIGITAL INPUT (OPTION) Voltage-Free Operation: Max Contact Resistance (Closure) = 500 Min. Contact Resistance (Open) = 5000Ω Max. Voltage for "0" = 0.8V; Min. Voltage for "0" = -0.6VTTL-Compatible Operation: Min. Voltage for "1" = 2.0V; Max. Voltage for "1" = 24.0V TRANSISTOR OUTPUTS Isolated NPN open collector. Output 1 tied to Alarm 1, Output 2 tied to Alarm 2. RELAY 1 OUTPUT (STANDARD) AND RELAY 2 OUTPUT (OPTION) Single pole double throw, 5A resistive @ 120Vac: 3A resistive @ 240Vac Contact Type/Rating >500,000 operations at rated voltage/current. Isolation - inherent. AUXILIARY POWER SUPPLY 20V - 28V (24V nominal) into 910 Ω minimum, short-circuit protected. LINEAR (RE-TRANSMITTED PV) OUTPUT (OPTION) Accuracy: +0.5% max. Resolution 8 bits in 250mS (10 bits in 1 second typically) Update Rate: 4/second approximately Load Impedance mA ranges - 500 Ω max. V ranges - 500 Ω min. OPERATING CONDITIONS FOR INDOOR USE Ambient Temperature 0°C to 55°C (Operating): Ambient Temperature -20°C to 80°C (Storage): Relative Humidity: 20% - 95% non-condensing Supply Voltage: 100 -240V AC 50/60Hz (standard) 7.5VA 20 - 50V AC (option) 7.5VA; 22 - 55Vdc (option) SW ENVIRONMENTAL. CE, UL & cUL Approvals:

Safety Considerations:

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Front Panel Sealing: PHYSICAL Dimensions:

Description	Adjustment Range
Re-transmission (Linear) Output: selects the output range. See also Selection of	<u>η α π.Ε.</u> None Π-5μ ο - 5V
Linear (Re-transmission) Output Range previously.	<u>ປ່−ງບ</u> ₂ 0 - 5∨ <i> −ງ</i> ບ ₅ 1 - 5∨
	<u> - []</u> 0-10V
	<u>2</u> - 10∪ _€ 2-10∨
	<u>]-2]</u> Я₂ 0-20mA
	년- <u>군∏</u> 月. <mark>4 - 20m</mark> A
Option Selection: determines the option fitted and the function of that option	
	Serial Communications
	Security Facility
	ERFE
Totaliser Scale Factor: timebase used for the totalisation calculation. This should be	SEc & Seconds
the same time units as the timebase used for the engineering units in the display. For	ח א Minutes
example, if the display is in grams/minute, set this parameter to minutes	hk Hours

EN61326-1:2013 Table 2 EN61326-1:2013 Class A This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures. UL61010-1 Edition 3 & EN61010 version 2010 fTo IP66 Height - 48mm

Depth Width-- 96mm 100mm (behind panel) 0.21kg max.