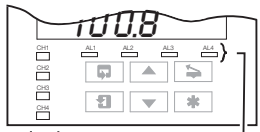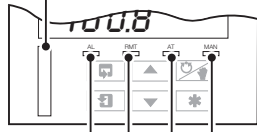## Displays and controls

Recorder Faceplate

Currently Displayed Channel

Process Variable Alarm Status

Controller Faceplate

Bar Graph (Indicates deviation of measured value from set point)

Alarm Status

Remote Set Point in Use
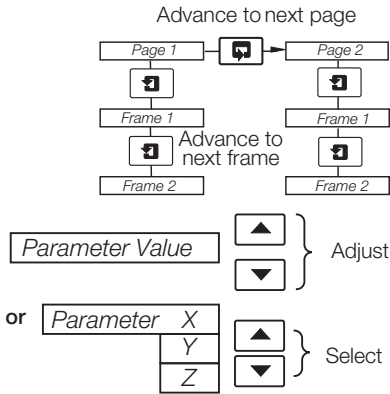
Manual Control

Auto-tune in Progress

Sideways Scroll

Down Scroll

Raise and Lower

Function Key

Alarm acknowledge; Auto-tune; Pen lift/ lower; Profile Control; Local/Remote or 'Home' – See *Programming Guide, 'Advanced Configuration'*

Pen Lift

(Recorder Only) Raises and lowers the chart pen.

Auto/Manual

(Controller Only) Switches between automatic and manual control modes.

Advance to next page

Page 1 / Page 2 / Frame 1 / Frame 1 / Advance to next frame / Frame 2 / Frame 2

Parameter Value → Adjust

or *Parameter X Y Z* → Select

Note. All programming is carried out using the faceplate keys and displays.

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IM/C1900-QR Rev. E   08.2018

C1900 recorder and recorder/controller
Quick reference guide

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| 99.99 |

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SECOdE

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| OPrtOr |
| LEUEL |

Note. Refer to the relevant page of the *Programming Guide* for further information.

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| bAS IC |
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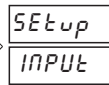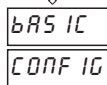
| SEtup |
| INPUt |

Setup Inputs – p4
Set the type, linearizer, ranges and fault levels for each input – see overleaf.

⟶

| SEtUP |
| PEN-NG |

Setup Pen Range – p8
Used to adjust the 'magnification' of the trace. Default is 0 to 100% of engineering range.
Set in engineering units.

⟶

| SEtUP |
| CHArt |

Setup Chart Speed – p9
Set the duration of one chart revolution and pen lift/drop parameters.

⟶
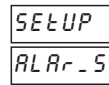
| SEtUP |
| ALAr_S |

Setup Alarms – p13
Set alarms to trip on process value, control output, setpoint deviation, rate of change.

| SEtUP |
| rELAYS |

| SEtUP |
| rELAYS |
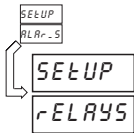
Setup Relays – p15
Set source used to activate each relay and define normally open/closed state.

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| d IGtAL |
| OUtPtS |
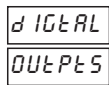
Setup Digital Outputs – p18
Set source used to activate each output and define normally open/closed state.

⟶

| SEtUP |
| ANAL OG |

Setup Analog Output – p20
Set an output as control or re-transmission.

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| d IGtAL |
| INPUtS |
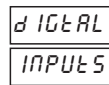
Setup Digital Input – p21
Set polarity of external digital signals.

⟶

| ACCESS |
| PAGE |

Access Page – p22
Disable access to configuration and tuning facilities.

⟶

| SCALE |
| AD.JUSt |

Scale Adjustment – p24
Allows spot calibration to eliminate system loop errors.

Setting analog input links

	5 □■□ 4	or	5 □ □□ 4	
mV THC	PL1 □■□		PL1 □ □□	mA V RTD &
	8 □ □□ 1		8 ■□□ 1	Resistance

| 2-wire Transmitter | PL8 1 □■□ 4 2 ■□ 3 | or | PL8 1 ■□□ 4 2 □ □ 3 | All Other Input Types |

Fig. 1 Input Links – Channel 1

| 2-wire Transmitter | PL3 3 ■□ 2 4 □ 1 | | PL3 3 □ □ 2 4 ■ 1 | All Other Input Types |

| mV THC | 4 □■□ 1 □ □ 5 ■□ 8 PL1 | | 4 ■□□ 1 □ □ 5 □■ 8 PL1 | mA V RTD & Resistance |
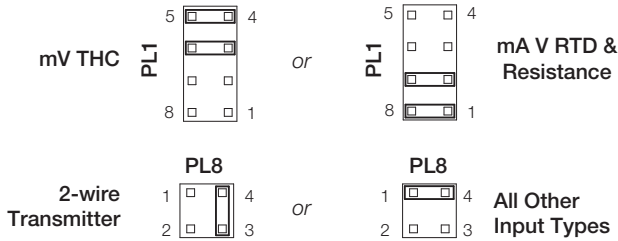
Warning. Ensure that the unit is isolated from all power supplies before removing I/O boards.

Fig. 2 Input Links – Channels 2 to 4 (If fitted)

Configuring analog inputs
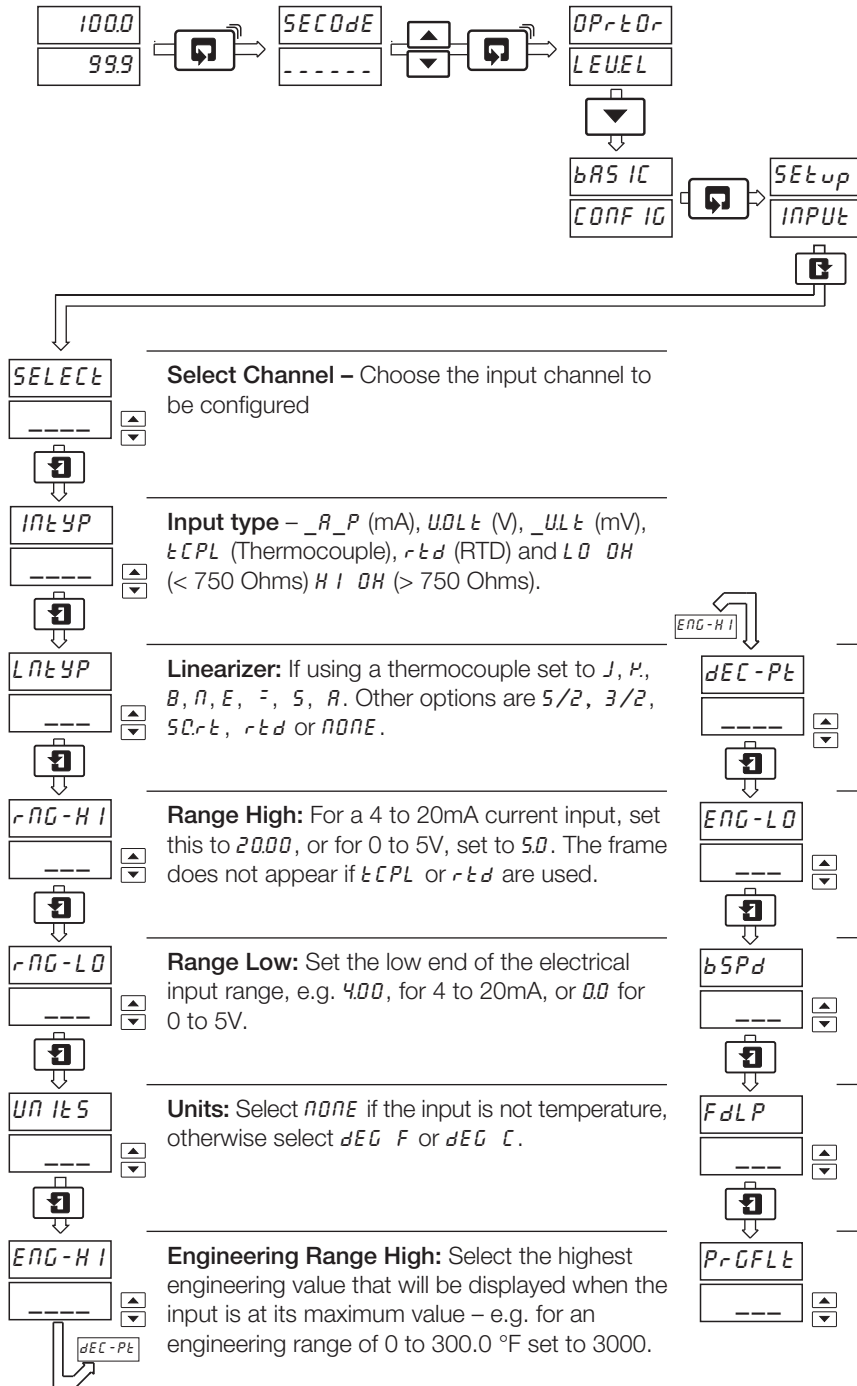
Information. The alphabet used to display page and parameter titles is as follows:

A – R	M – _
B – b	N – N or n
C – C or c	O – O or o
D – d	P – P
E – E	Q – C.
F – F	R – r
G – G	S – 5
H – H or h	T – t
I – i	U – U
J – J	V – U.
K – K.	Y – y
L – L	

SELECT — **Select Channel –** Choose the input channel to be configured

INtYP — **Input type** – _A_P (mA), UOLt (V), _ULt (mV), tCPL (Thermocouple), rtd (RTD) and LO OH (< 750 Ohms) HI OH (> 750 Ohms).

LNtYP — **Linearizer:** If using a thermocouple set to J, K, B, N, E, =, 5, R. Other options are 5/2, 3/2, SC.rt, rtd or NONE.

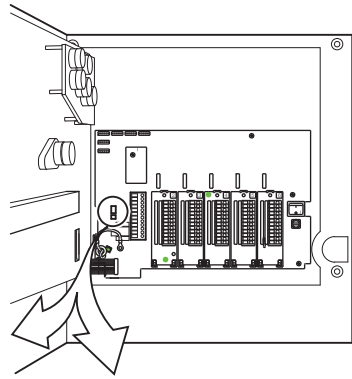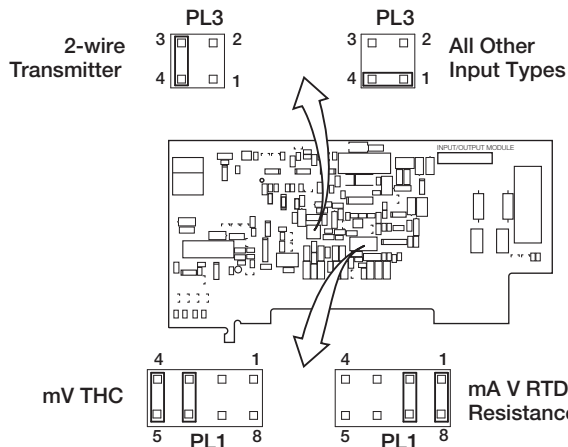**rNG-HI** — **Range High:** For a 4 to 20mA current input, set this to 20.00, or for 0 to 5V, set to 5.0. The frame does not appear if tCPL or rtd are used.

rNG-LO — **Range Low:** Set the low end of the electrical input range, e.g. 4.00, for 4 to 20mA, or 0.0 for 0 to 5V.

UNItS — **Units:** Select NONE if the input is not temperature, otherwise select dEG F or dEG C.

ENG-HI — **Engineering Range High:** Select the highest engineering value that will be displayed when the input is at its maximum value – e.g. for an engineering range of 0 to 300.0 °F set to 3000.

dEC-Pt — **Decimal Point:** Select the decimal point position for the process variable, e.g. 300.0.

ENG-LO — **Engineering Range Low:** Select the lowest engineering value that will be displayed when the input is at its minimum value – e.g. for an engineering range of 0 to 300.0 °F set to 0.0.

bSPd — **Broken Sensor Drive:** Determine pen action when the input signal fails: NONE – pen follows failed input; UP – pen driven to full scale; dN – pen driven to zero scale.

FdLP — **Fault Detection Drive:** Determine maximum input travel outside engineering range before an error is detected. E.g. for a 0 to 300°F range, a 10% fault level will trigger at 330°F.

PrGFLt — **Input Filter:** Adjust the instrument response time from 0 to 60 seconds in one second increments to reduce pen jump & dampen out noisy signals.

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