MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Reference package for procurement and maintenance review

SIEMENS

7ML19301BK

INTRINSICALLY SAFE INFRARED HAND PROGRAMMER

Used with the applicable SITRANS Infrared IS Programmer configuration.

REFERENCE PACKAGE

OFFICIAL DOCUMENT

Selected official manufacturer pages follow this cover.

Source: Siemens SITRANS LR560 operating instructions, 7ML19985LT02, programmer specification and keypad operation.

Radar Transmitters

SITRANS LR560 (PROFIBUS PA)

Operating Instructions · 01/2012



SITRANS

SIEMENS

Dust Ignition Proof [1] (US/Canada)	FM/CSA: Class II, Div. 1, Groups E, F, G Class III T4
Non-incendive[1] (US/Canada)	FM/CSA Class I, Div. 2, Groups A, B, C, D, T4

Programmer (infrared keypad)

Notes:
- Battery is non-replaceable with a lifetime expectancy of 10 years in normal use.
- To estimate the lifetime expectancy, check the nameplate on the back for the serial number. The first six numbers show the production date (mmddyy), for example, serial number 032608101V.

Siemens Milltronics Infrared IS (Intrinsically Safe) Hand Programmer for hazardous and all other locations (battery is non-replaceable)

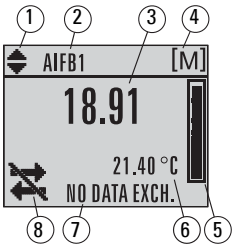
• approval	FM/CSA Class I, II, III, Div. 1, Gr. A to G T6 CE ATEX II 1GD Ex ia IIC T4 Ga Ex iaD 20 T135 °C IECEx SIR 09.0073 Ex ia IIC T4 Ga Ex iaD 20 T135 °C INMETRO Br-Ex ia IIC T4
• ambient temperature	–20 to +50 °C (–5 to +122 °F)
• interface	proprietary infrared pulse signal
• power	3 V lithium battery
• weight	150 g (0.3 lb)
• color	black
• Part Number	7ML1930-1BK

[1] See *Non-incendive and Dust Ignition Proof wiring (US/Canada)* on page 27.

The LCD Display

Measurement mode

Normal operation



1 – toggle indicator[1] for AIFB 1 or AIFB 2
2 – identifies which AIFB is source of displayed value
3 – measured value (level, space, or distance)
4 – units
5 – bar graph indicates level
6 – secondary region indicates on request[2] electronics temperature, echo confidence, or distance
7 – text area displays status messages
8 – device status indicator

Fault present

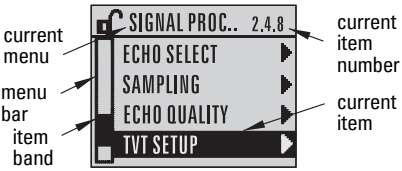


S: 0 LOE

7 – text area displays a fault code and an error message
8 – service required icon appears

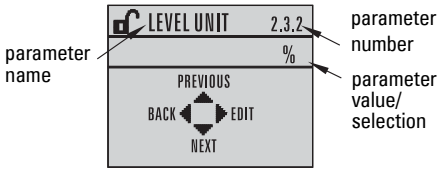
PROGRAM mode display

Navigation view

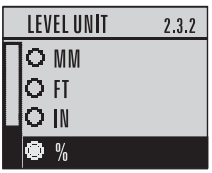


- A visible menu bar indicates the menu list is too long to display all items.
- The depth of the item band on the menu bar indicates the length of the menu list: a deeper band indicates fewer items.
- The position of the item band indicates the approximate position of the current item in the list. A band halfway down the menu bar indicates the current item is halfway down the list.

Parameter view



Edit view



1) Press **UP** or **DOWN** arrow to switch.
2) In response to a key press request. For details, see *Key functions in Measurement mode* on page 31.

Handheld Programmer

(Part No. 7ML1930-1BK)

The programmer is ordered separately.



Key functions in Measurement mode

Key	Function	Result
6	Displays internal enclosure temperature reading.	New value is displayed in LCD secondary region.
8	Displays echo confidence value[1].	
	Displays distance measurement.	New value is displayed in LCD secondary region
	Mode opens PROGRAM mode.	Opens the menu level last displayed in this power cycle, unless power has been cycled since exiting PROGRAM mode or more than 10 minutes have elapsed since PROGRAM mode was used. Then top level menu will be displayed.
	RIGHT arrow opens PROGRAM mode.	Opens the top level menu.
	UP or **DOWN arrow** toggles between AIFB 1 and AIFB 2.	Identifies which AIFB is the source of the displayed value.

1) See **Confidence (2.4.7.1.)** on page 75.

Changing a numeric value

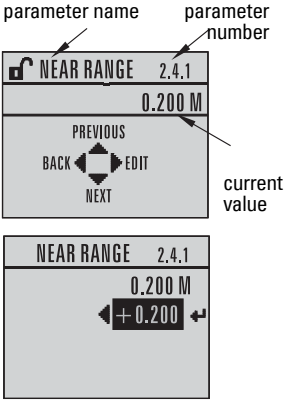
a) Navigate to the desired parameter.

b) Press **RIGHT arrow** to open parameter view. The current value is displayed.

c) Press **RIGHT arrow** again to open **Edit** mode. The current value is highlighted.

d) Key in a new value.

e) Press **RIGHT arrow** to accept it. The LCD returns to parameter view and displays the new selection.



Key functions in Edit mode

Key	Name	Function	
▲ ▼	**UP** or **DOWN arrow**	Selecting options	Scrolls to item.
		Alpha-Numeric editing	- Increments or decrements digits - Toggles plus and minus sign
►	**RIGHT arrow**	Selecting options	- Accepts the data (writes the parameter) - Changes from **Edit** to **Navigation** mode
		Numeric editing	- Moves cursor one space to the right - or with cursor on Enter sign, accepts the data and changes from **Edit** to **Navigation** mode
◄	**LEFT arrow**	Selecting options	Cancels **Edit** mode without changing the parameter
		Numeric editing	- Moves cursor to plus/minus sign if this is the first key pressed - or moves cursor one space to the left. - or with cursor on Enter sign, cancels the entry
C	**Clear**	Numeric editing	Erases the display.
•	**Decimal point**	Numeric editing	Enters a decimal point.
−/+	**Plus or minus sign**	Numeric editing	Changes the sign of the entered value.
0 to 9	**Numeral**	Numeric editing	Enters the corresponding character.