

# Level Measurement

## Continuous level measurement – Radar transmitters

### SITRANS LR560

#### Selection and Ordering data

##### SITRANS LR560

2-wire, 78 GHz FMCW radar level transmitter for continuous monitoring of solids in silos to a range of 100 m (329 ft).

#### Order handheld programmer separately

#### Measurement and process temperature range

40 m (131 ft) max range, -40 ... +100 °C

100 m (329 ft) max range, -40 ... +200 °C

#### Process connection

Universal flat-faced flange fits ANSI/DIN/JIS flanges

3 inch/80 mm, 304 stainless steel

4 inch/100 mm, 304 stainless steel

6 inch/150 mm, 304 stainless steel

3 inch/80 mm, 316L stainless steel

4 inch/100 mm, 316L stainless steel

6 inch/150 mm, 316L stainless steel

3 inch/80 mm, painted aluminum, with integral aimer<sup>1)</sup>

4 inch/100 mm, painted aluminum, with integral aimer<sup>1)</sup>

6 inch/150 mm, painted aluminum, with integral aimer<sup>1)</sup>

#### Enclosure (with cable inlet)

Stainless steel, 1 X 1/2" NPT

Stainless steel, 1 X M20 x 1.5 (plastic gland included)

#### Pressure rating

0.5 bar g (7.5 psi g) maximum

3 bar g (40 psi g) maximum

#### Output/communication

4 ... 20 mA, HART

PROFIBUS PA

Foundation Fieldbus

#### Approvals

General Purpose, CSA<sub>US/C</sub>, Industry Canada, FCC, CE, R&TTE, C-TICK

CSA/FM Class I, Div. 2, Groups A, B, C, D, Class II, Div.1, Groups E, F, G, Class III

ATEX II 1 D, 1/2 D, 2 D, 3G Ex nA/nL, CE, R&TTE, C-TICK

#### Local display interface

Without LDI (local display interface)

With LDI (local display interface)

<sup>1)</sup> Rated to 120 °C max. when used with Pressure rating option 1

◆ We can offer shorter delivery times for configurations designated with the Quick Ship Symbol ◆. For details see page 9/5 in the appendix.

#### Article No.

7ML5440-

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#### Selection and Ordering data

##### Further designs

Please add "-Z" to Article No. and specify Order code(s).

Plug M12 with mating connector<sup>1)2)3)</sup>

Plug 7/8" with mating connector<sup>1)3)4)</sup>

Stainless steel tag [69 x 50 mm (2.71 x 1.97 inch)]:

Measuring-point number/identification (max. 27 characters); specify in plain text

Manufacturer's test certificate: M to DIN 55350, Part 18 and to ISO 9000

Inspection Certificate Type 3.1 per EN 10204<sup>4)</sup>

NAMUR NE43 compliant, device preset to failsafe < 3.6 mA<sup>5)</sup>

##### Operating Instructions for HART device

English

German

Multi-language Quick Start manual  
This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Quick Start and Operating Instructions library.

##### Operating Instructions for PROFIBUS PA device

English

German

Multi-language Quick Start manual  
This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Quick Start and Operating Instructions library.

##### Operating Instructions for Foundation Fieldbus device

English

German

Multi-language Quick Start manual  
This device is shipped with the Siemens Milltronics manual DVD containing the ATEX Quick Start and Operating Instructions library.

##### Accessories

Hand Programmer, Intrinsically safe

Local display interface

Sun Shield Cover

Housing lid with window

One metallic cable gland M20x1.5, rated -40 ... +80 °C (-40 ... +176 °F), HART<sup>6)</sup>

One metallic cable gland M20x1.5, rated -40 ... +80 °C (-40 ... +176 °F), PROFIBUS PA<sup>6)</sup>

SITRANS RD100 Remote display - see Chapter 7

SITRANS RD200 Remote display - see Chapter 7

SITRANS RD500 web, datalogging, alarming, ethernet, and modem support for instrumentation - see Chapter 7

<sup>1)</sup> Available with Approval option A only

<sup>2)</sup> Available with Enclosure option B only

<sup>3)</sup> Available with Output/communication options B and C only

<sup>4)</sup> Available with Pressure rating option 1 only

<sup>5)</sup> Available with Output/communication option A only

<sup>6)</sup> Product shipped with plastic cable gland, rated to -20 °C.

If -40 °C rating required, then metallic cable gland is recommended.

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#### Order code

◆ A50

◆ A55

◆ Y15

◆ C11

◆ C12

◆ N07

#### Article No.

7ML1998-5KB02

7ML1998-5KB32

A5E32052143

7ML1998-5LT02

7ML1998-5LT32

A5E32043113

7ML1998-5LY02

7ML1998-5LY32

A5E32034712

7ML1930-1BK

7ML1930-1FJ

7ML1930-1FK

7ML1930-1FL

7ML1930-1AP

7ML1930-1AQ

7ML5750-1AA00-0