

SITRANS LR100 series

Compact 80 GHz radar transmitters for hassle-free level measurement



	SITRANS LR100	SITRANS LR110	SITRANS LR120	SITRANS LR140	SITRANS LR150
	7ML530	7ML531	7ML532	7ML533	7ML534
	Basic 4-20 mA measurement to 10 m with cable	With communications, hazardous approvals options, and range to 20 m	With communications, longest range to 30 m, and optional submergence shield for flooding protection	Basic measurement to 10 m with terminal connection	With HART communication, hazardous approvals, local HMI option, and range to 20 m
Measuring principle	78-82 GHz, FMCW	78-82 GHz, FMCW	78-82 GHz, FMCW	78-82 GHz, FMCW	78-82 GHz, FMCW
Measuring range	10 m (33 ft)	20 m (66 ft)	30 m (98 ft)	10 m (33 ft)	20 m (66 ft)
Process connections	PVDF Thread 1½" and 1"	PVDF Thread 1½" and 1"	PVDF Thread 1"	PVDF Thread 1½"	PVDF Thread 1½"
Process pressure	-1 to 3 bar	-1 to 3 bar	-1 to 3 bar	-1 to 3 bar	-1 to 3 bar
Process temperature	-40 to 60 °C (-40 to 140 °F)	-40 to 80 °C (-40 to 176 °F)	-40 to 80 °C (-40 to 176 °F)	-40 to 60 °C (-40 to 140 °F)	-40 to 80 °C (-40 to 176 °F)
Accuracy	5 mm (0.2")	2 mm (0.08")	2 mm (0.08")	5mm (0.2")	2 mm (0.08")
Beam Angle	8°	8°	4°	8°	8°
mA/Loop, Communications	2-wire, 4 to 20 mA	2-wire, 4 to 20 mA/ HART or 4-wire, Modbus	2-wire, 4 to 20 mA/ HART or 4-wire, Modbus	2-wire, 4 to 20 mA	2-wire, 4 to 20 mA/ HART
Ex approvals	no	Gas and dust	Gas and dust	no	Gas
Optional HMI	no	no	no	no	Yes, with Quick Start Wizard and diagnostic support
Bluetooth	yes	yes	yes	yes	yes

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