

# RADAR LEVEL TRANSMITTER

SERIES : SC / L - 1101

## PULSE/ FMCW RADAR LEVEL INSTRUMENTS (26 GHz)

The Radar Level Meters of CW COMPACT/REMOTE WAVE 26 GHz series are excellent devices for no contact level measurement. The microwave impulses, emitted by the radar's antenna, travel at speed of light and a part of their energy, reflected by the surface of the medium to be measured, is received by the same antenna. The period of time (flying time) between the emission and the arrival of the impulses, is proportional to the existing distance between the antenna and the surface of the medium to be measured.

The electromagnetic wave travels at a very high speed (nanosecond), so it is difficult to identify it: CW COMPACT/REMOTE WAVE 26 GHz Radar Level Meters, thanks to their integrated management system, use a suitable demodulation technology that allows them to identify the period of time between the emission of the impulses and their corrected reception and, consequently, determine and measure the level. The Alphanumeric Display allows the user not just to enter the data for the level measurement, but even to display and isolate false echoes.

CW\_WARE is a software for the configuration and calibration of the units with a PC is available too, it has HART communication protocol and it is used with a standard HART MODEM (mandatory).

An advanced microprocessor and the "EchoDiscovery" technology make the device suitable for measurements in critical areas with hard conditions, such as high temperatures and high pressure. The function "False Echo Storage" identifies the correct echo, even if there is a false echo: in this way a correct measurement is gained. An integrated temperature sensor compensates the temperature in real time. The Radar Level Meters can be installed both in metallic or non metallic tanks; their use is not harmful to humans or environment.

## CW SERIES WAVE COMPACT/REMOTE 26 GHZ

Remote Electronics RU: Housings:

								
TYPE	E 1	E 2	F	G	H	I	J	K
MATERIAL	SS 316L		PTFE	PP	SS 316L			
PRESSURE	--1...40 bar		--1...3 bar	Normal Pressure	--1...40 bar	--1...5 bar	--1...40 bar	--1...40 bar
TEMP in °C	-60..+130	-60..+250	-40..+130	-40..+80	-60..+150	-60..+130	-60..+250	-60..+400

COMPACT/RE MOTE WAVE CW57



COMPACT/RE MOTE WAVE CW59



## PRODUCTS OVERVIEW

			
HOUSING CODE	A	B/C	D
MATERIAL	Plastic	Aluminium Alloy (available also in Two-Chamber version)	SS 316L
Process Connections:			

COMPACT/RE MOTE WAVE CW55



COMPACT/RE MOTE WAVE CW56



COMPACT/RE MOTE WAVE CW58



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