

# DolpHin

## Radar

DolpHin is an 80 GHz compact radar with built-in Bluetooth. Due to its compact size and narrow measuring range, flexible installations are ensured without interferences.

DolpHin has a boot time of less than 10 seconds. This makes DolpHin ideal for overflow detection when it is connected to our GEKKO battery-powered data logger.



- Bluetooth® technology for easy and quick setup with Siemens SITRANS mobile IQ App
- Narrow beam at 80 GHz as well as compact size allow for easy installation and commissioning
- Special radar microchip enables measurements in areas with condensation, build-up or airy solids. Even the weakest signals will still be detected.
- The zero blanking zone allows measuring ranges all the way up to the sensor. With an accuracy of 2 mm, you can avoid expensive manual measurement methods

## Technical data

<b>Material</b>	PVDF
<b>Measurement</b>	L = 132mm, B = 76mm
<b>Weight</b>	0,7 kg excl. kabel
<b>Wired connection</b>	Black = plus, White = minus
<b>Cable length</b>	8 meter
<b>Range</b>	Up til 8 meters
<b>Accuracy</b>	+/- 5 mm
<b>Beam angle</b>	8°
<b>Enclosure class</b>	IP66/68
<b>Voltage supply</b>	12V DC to 35V DC, 4-20 mA loop power 2-wire
<b>Frequency</b>	78-82 GHz, FMCW
<b>Output</b>	4-20mA (3,8-20,5mA factory settings)
<b>Operable temperature</b>	-40°C to +60°C
<b>Storage temperature</b>	-40°C to +80°C

<b>Humidity</b>	45% to 75% relative humidity
<b>Process pressure</b>	-1 to 3 bar
<b>Power consumption</b>	≤ 3.6 mA at startup, ≤ 10mA in 5ms after switching on
<b>Start-up time</b>	< 10s
<b>Programming</b>	Bluetooth
<b>Approval</b>	Ordinary locations, CE, CFMUS, CCSAUS, RCM, FCC, Industry Canada

## Products

Item number	Description
1714-2300100	DolpHin Radar
A5E50507509	1" bracket - 80mm
A5E50507511	1" bracket - 200mm
7ML1830-1DR	1" bracket