WSD12-DIST

Wireless Smart Datalogger

Distance

Technical Information

Power supply	Double 5,8A/h - 3,6 V type "C" lithium internal battery
Battery life (*)	Up to 3years *(samples every 60 minutes and radio signal quality at least sufficient)*
Measures acquired (2 input channels)	Distance in mm = ($CH1 * 100$)+ ($CH2 / 10$)
Sampling interval *(*)*	Selectable from one minute to 24 hours *(60 minutes default)*
Datalogger capacity	64,000 samples (*for each channel*)
Working temperature	• Operative: -30°C ÷ +60°C • Warehousing: -40°C ÷ +70°C
Radio frequency	ISM 868MHz
Radio coverage	Up to 6Km in line of sight *(can be extended using **WR12** battery powered routers)*
Sealing	IP65
Dimensions	• Datalogger: 90x160x50mm • Transducer: 212x95x50mm
Weight	• Datalogger: 450g • Transducer: 725g
Case material	• Datalogger: ABS • Transducer: Aluminium
Mounting	• Datalogger Fix on 4 points • Transducer Fix on 4 points
Connections	Wireless, USB

Distance laser measurer

Laser class	Laser class: 2 - 650nm - IEC825-1/EN60825
Laser power	<1mW
Divergence angle	0.6mrad
Point diameter	• <6mm a 10m • <30mm a 50m • <60mm a 100m
Measure range	• 0.1÷100m on bright surfaces • Up to 150m on reflecting surfaces
Measure resolution	0,1mm
Absolute accuracy	±2mm on white susurface with 150m full scale
Repeatability	±0,5mm
Working temperature	• Operative: -10°C ÷ +60°C • Warehousing: -20°C ÷ +70°C
Sealing	IP65

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The **WSD12-DIST** is a datalogger with 2 input channels to measure distance in mm with storage functionality of samples acquired.

The radio module based on WINECAP™ protocol provides an excellent radio range and a very low battery consumption.

With a backup memory onboard may store the last 64.000 samples per channel even if the wireless link is down. Samples can be downloaded using a USB connection.

Using the configuration software the sampling interval may be set and two thresholds per channel can be activated.

May be interfaced with:
- all the **basestations** of **MWDG** product line
- all the **basestations** of **MWLI** product line

If necessary, radio coverage may be extended using up to 32 **WR12 routers** (*maximum 16 for each path*) between the datalogger and the **basestation**.

* battery life may be influenced by fieldwork conditions, sampling interval and system configuration. - refer to User Manual.

The features shown may be subject to change without notice.