



WIRELESS IOT TRI-AXIS INCLINOMETER

Please consult the product datasheets for more information about main features:

- Datasheet **SATEVIS® ALPHA-INC** Tri-Axis Inclinometer Sensors: [click here](#)
- Datasheet **SATEVIS® ALPHA-INC Kompakt** Tri-Axis Inclinometer Sensors: [click here](#)

SATEVIS® ALPHA-INC Tri Axis inclinometer sensor series is designed for Structural Health monitoring (SHM), Condition Maintenance Monitoring (CMS), Land Surveying and Test and Measurement. Features differences between **SATEVIS® ALPHA-INC** and **SATEVIS® ALPHA-INC Kompakt** are explained here:



Main features	Reference	SATEVIS-LORA-ALPHA-INC-MR-PS-RP-AG WIRELESS IOT TRI-AXIS INCLINOMETER	SATEVIS-LORA-ALPHA-INC-KOMP-MR-PS-RP-AG WIRELESS IOT TRI-AXIS INCLINOMETER
Scalable Measuring Range		±10° or ±85°	
Sensor resolution		0.0055°	
Sensor Precision/Repeatability (full scale, 25°C)		±0.01° for ±10° measurement range ±0.02° for ±85° measurement range	
Sensor Accuracy (full scale, @ 25°C)		±0.015° for ±10° range ±0.02° for ±45° range ±0.04° outside ±45° range	
TX Power		HP - High Power Transmission +22dBm LP- Low Power Ttransmission +14dBm	LP- Low Power Ttransmission +14dBm
Maximum Radio Range		- 15 Km in L.O.S. / Rural Environment - 2Km in NLOS/ Urban Environment	- 8-10 Km in L.O.S. / Rural Environment - 1-2Km in NLOS/ Urban Environment
Mounting base		Screw and Magnetic	Screw Mounting
Battery		3 x C Size Cell 6.5Ah in Series	1x D Size Cell 19Ah
Weight		950 g	700g
Casing size (without antenna)		151 x 130 x55 mm	115 x90 x55 mm



WIRELESS IOT BI-AXIS INCLINOMETER

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Main features	Reference	SATEVIS-LORA-ALPHA-INC-MR-PS-RP-AG WIRELESS IOT BI-AXIS INCLINOMETER	SATEVIS-LORA-ALPHA-INC-KOMP-MR-PS-RP-AG WIRELESS IOT BI-AXIS INCLINOMETER
Scalable Measuring Range		±30° or ±55°	
Sensor resolution		0.00183° for ±30° range / 0.00366° for ±55° range	
Sensor Precision/Repeatability (full scale, 25°C)		±0.00183° for ±30° range ±0.00366° for ±55° range	
Sensor Accuracy (full scale, @ 25°C)		±0.005° for ±10° range ±0.01° for ±45° range ±0.02° outside ±45° range	
TX Power		HP - High Power Transmission +22dBm LP- Low Power Ttransmission +14dBm	LP- Low Power Ttransmission +14dBm
Maximum Radio Range		- 15 Km in L.O.S. / Rural Environment - 2Km in NLOS/ Urban Environment	- 8-10 Km in L.O.S. / Rural Environment - 1-2Km in NLOS/ Urban Environment
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