



TS2D with Display



OVERVIEW

Aeron's Tilt Sensor with Display solution, detects the tilt angle of the device or the surface the device is placed on and displays the tilt angles on the display.

TECHNICAL SPECIFICATIONS

Tilt Sensor (TS2D)

Parameter Name	Parameter Value
	VEGA
	TS2D
Performance	
Measurement Range	±60° (pitch) ±180° (roll)
Resolution	0.01°
Accuracy	±0.1° (static)
Update rate*	1 Hz, 10 Hz, 50Hz
Interfaces	RS232 / RS485
Electrical	
Power Supply (VDC)	+9 to +28
Current consumption	< 100 mA
Environmental	
Shock Survival	20 g [#]
Environmental Sealing	IP65
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +85°C
Mechanical	
Size	37mm (H) x 88 mm (L) x 58 mm (W)
Weight	280 gms
Casing Material	Aluminum

Display (LD2)

Parameter Name	Parameter Value/Description
Serial input format	RS485 (ASCII)
Baud rate	9600 (fixed)
Data bits	8
Parity	None
Stop bit	1
Analog input	0 -10 VDC (configurable scale factor and offset)
Data update rate	10 Hz (maximum)
Data format	As per Aeron make TS2D / TSW / TSWG
Display	Dual row, 7 segment LED
Display resolution	Upto 4 digits (with floating decimal)
Operating voltage	+12 to +24 VDC
Current Consumption	<100 mA
Size	116 (L) x 134 (W) x 32 (H) in mm
Weight	380 gm
Operating temperature	-20°C to +70 °C

Applications

- Angle and Tilt Sensing
- Solar Tracking
- Robotics
- Dumper Inclination Measurement
- Motion Sensing
- Platform Stabilization & Leveling
- ATM machines , Man-Lift Safety
- Safe Load Indicators, Crane Boom Angle Indicators

Please refer product datasheet for further information available on www.aeronsystems.com

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