

Horis | Technical Specifications

Description	Value
Operational voltage	5 to 32 V
Operating temperature	-30 ~ +85 °C
Humidity	30 ~ 90 %, non condensing
Barometric sensor	24 bit, 10 to 1200 hPa, 20 cm resolution
QNH range	590 to 1080 hPa, (17.42 to 31.89 inHg)
Airspeed sensor	12 bit, 0 to 69 hPa, 381 km/h, 205 kt resolution < 0.1 km/h
(units before Oct 19)	0 to 50 hPa, 325 km/h, 175 kt
Acceleration	16 bit, 3D, dynamic range 0 to 16 g, typical resolution 0.12 mg
Angular rate	16 bit, 3D, 250°/s, resolution 0.009°/s
GPS	10 Hz, 66 channel, hot start 1 s, cold start 35 s, sensitivity -165 dBm
OAT	12 bit, range -55 to 125°C, 0.5°C accuracy
Communication	CAN bus, 29 bit header, 500 kbit, Kanardia protocol RS 232, NMEA out, 9600 baud (default)
Sensor processor	32 bit, ARM Cortex M3, 80 Mhz
Display processor	32 bit, ARM Cortex M3 - LCD, 120 Mhz
Start-up time	System less than 1 s, AHRS about 5 s.

Table 1: Technical specifications of Horis instrument.

Description	Value
Weight	180 g (230 g with GPS antenna and OAT cable)
Size	62 x 62 x 45 (64 with connectors) mm
Power consumption	2.16 W
Current	180 mA at 12 V
Panel hole	57 mm (2.25 inch) diameter, standard fit
Display	320 x 240 pix, diagonal 2.55", 16 bit full colour, super bright
SD card slot	micro SD, since Jan 2020

Table 2: Additional specifications for 57 mm Horis version.

Description	Value
Weight	250 g (300 g with GPS antenna and OAT cable)
Size	82 x 82 x 45 (64 with connectors) mm
Power consumption	3.2 W
Current	270 mA at 12 V
Panel hole	80 mm (2.25 inch) diameter, standard fit
Display	320 x 240 pix, diagonal 3.45", 16 bit full colour, super bright

Table 3: Additional specifications for 80 mm Horis version.