

Nesis III | Technical Specifications

Description	Value
Weight	1095 g
Size	215 x 175 x 40 mm
Operational voltage	8 to 25 V
Power consumption	820 mA
Operating temperature	-30 °C to +85 °C
Humidity	30 % to 90 %, non condensing
Panel hole	212 x 170 mm
QNH range	590 to 1080 hPa (17.42 to 31.89 inHg)
Barometric sensor	24 bit, 10 to 1200 hPa, 20 cm resolution
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 Input: ADS-B & Flarm, RS 232, video in, OAT, USB, service port; Output: GPS, audio out
Sensor processor	32 bit, ARM Cortex M3, 100 Mhz
Display processor	DM 3730, 32 bit, ARM Cortex A8, 800 Mhz
Display	800 x 600 pix, diagonal 8.4", 16 bit, full colour, super bright
Touchscreen	Projected capacity, optically bonded multi touch
Video hardware acc.	Power VR SDX 540
Memory	512 RAM
Start-up time	< 10 s

Table 1: Technical specifications of Nesis 8.4" instrument.

Nesis III | Technical Specifications

Description	Value
Weight	745 g
Size	190 x 125 x 40 mm
Operational voltage	8 to 25 V
Power consumption	690 mA
Operating temperature	-30 °C to +85 °C
Humidity	30 % to 90 %, non condensing
Panel hole	212 x 170 mm
QNH range	590 to 1080 hPa (17.42 to 31.89 inHg)
Barometric sensor	24 bit, 10 to 1200 hPa, 20 cm resolution
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; Input: ADS-B & Flarm, RS 232, video in, OAT, USB, service port; Output: GPS, audio out
Sensor processor	32 bit, ARM Cortex M3, 100 Mhz
Display processor	DM 3730, 32 bit, ARM Cortex A8, 800 Mhz
Display	800 x 600 pix, diagonal 7", 16 bit, full colour, super bright
Touchscreen	Projected capacity, optically bonded multi touch
Video hardware acceleration	Power VR SDX 540
Memory	512 RAM
Start-up time	< 10 s

Table 2: Technical specifications of Nesis 7" instrument.