

NANOCRIOTEL IOT

- Local and remote monitoring of cryogenic tank (vertical and horizontal) for level and pressure with communication through GPRS
- Integrated and patented differential and relative pressure transducers
- Large LCD display two rows by four 7-segments digits
- Level monitoring in %, m³, ton, Kgal, mmH₂O, inH₂O
- Configurable pressure indicator in bar or psi
- Minimum level, low pressure and high pressure/high level set-points
- Low temperature alarm for detecting leakages of cryogenic media
- Sleeping mode with 15 sec. periodic activation to reduce the power consumption: measure reading, alarm condition with relative remote monitoring
- Remote level and pressure update frequency programmable from 1 to 24 hours
- Solar panel power supply / long term battery or external power pack supply
- Backup battery Li-Ion
- Internal three programming pushbuttons
- Programming and status upgrade messages receiving through software CrioSystemSupervisor
- Easy, fast and inexpensive installation for setup and startup



Local and remote monitoring unit
for cryogenic tanks

REMOTE MONITORING

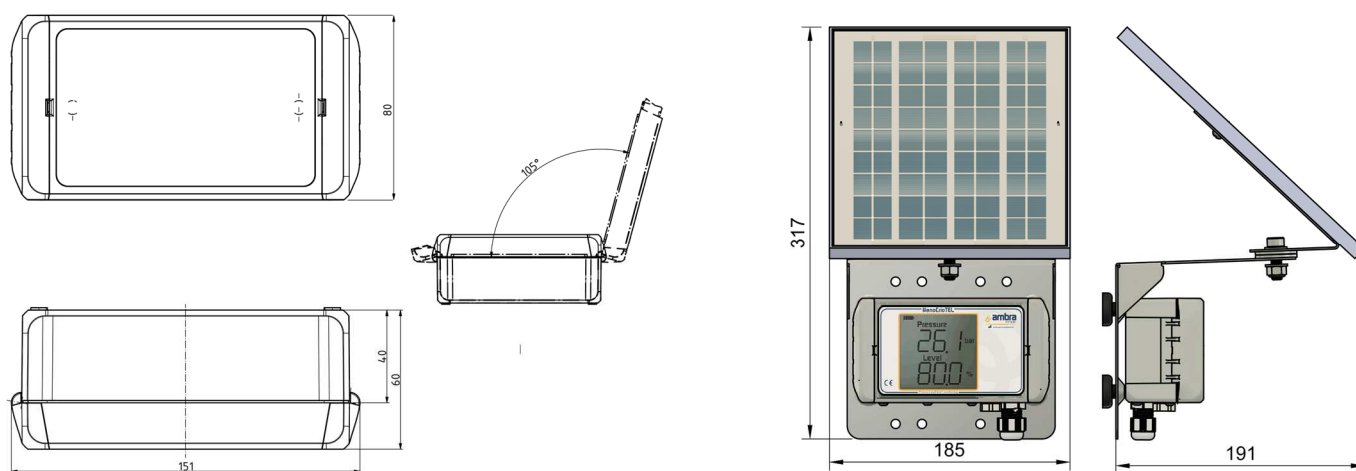
TECHNICAL SPECIFICATIONS

Power supply	24 Vcc \pm 5 % 0,35 A / Solar panel 100 mA @ max. solar exposition Backup battery: 3.7 V 2.0 Ah Li-ion
Pressure and level (DRT transducer)	<p>Relative pressure 0-50 bar Resolution: 0.1 bar Combined error (0...50 °C): $< \pm 1$ % of F.S. Breaking overpressure: 80 bar</p> <p>Differential pressure (level): Range: 0-2 bar Resolution: --- (programmable by user) Combined error (0...50 °C): $< \pm 2$ % of F.S @ F.S. ≥ 150 mbar Differential overpressure: ± 4 bar limited by integrated protection devices</p>
Visual indications	4 digits LCD display for level H18 mm 4 digits LCD display for pressure H18 mm
Pneumatic connections	1/8" G female with fitting adapters 1/4" NPT female or 1/4" G female
Housing	Heavy plastic enclosure for wall mounting, size 151 x 80 x 60 mm, waterproof degree IP 66, complete dimensions with solar panel 250 x 300 x 185 mm

Integrated communication cards	Integrated modem 4G with GPRS data communication
Weight	1,5 Kg/ 0,5 Kg solar panel included
Operating Temperature	-20...60 °C
Reference directives and product standards	2014/35/EU LVD, 2014/30/EU EMC, RoHS 2011/65/EU EN 61000-6-1, EN 61000-6-3 ISO 15001, BAM M 034-1

CE

DIMENSIONS



measures in mm

PRODUCT CODES

CODE	DESCRIPTION
0001-28-011	NanoCRIOTEL IoT 2/50: Monitoring unit range sensor 0...50 bar relative and 0...2 bar differential, Italian/English label
0001-00-100	Kit Solar panel 5W: stainless-steel bracket for mounting of NanoCRIOTEL + solar panel 5 W and power supply cable 80 cm
0001-19-055	POWER SUPPLY AZ24i: 230 Vac/ 24 Vcc – 1.2 A switching power supply, Isolation transformer 230Vac/230Vac, filters, PVC housing IP56 for wall mounting. size 190x140x70 mm
0001-00-122	MAGNETIC KIT FOR NanoCRIOTEL: 6 neodymium magnets with Epoxy protection and adapting to the surface