

MINICRIO



Remote monitoring unit for cryogenic tanks low cost

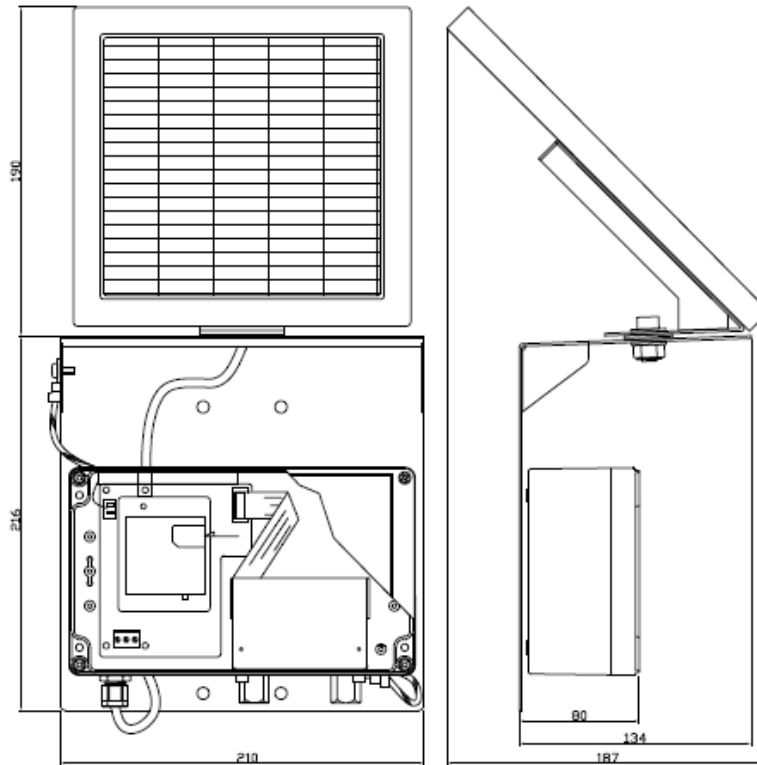
FUNCTIONS

- Remote monitoring of tank for level and pressure through GSM network
- Integrating differential and relative pressure transducers type DRT
- Optional 4...20mA inputs for pressure transducer in alternative of DRT cell
- Optional solar panel power supply
- Li-ion backup integrated battery to supply the unit in power absence
- Sleeping mode with small periodic activation to reduce the power consumption: measure reading, alarm condition verify with relative message sending. Update frequency programmable from 1 to 24 hours
- Pushbutton on front panel for manual wakeup unit
- Programming and status upgrade messages receiving through software CRIOSYSTEM and/or mobile phone
- Easy, fast and inexpensive installation for setup and startup.

TECHNICAL SPECIFICATION

Power supply	Power supply: 7-24 Vcc $\pm 5\%$ / Solar panel 100 mA @ max. solar exposition Battery: 3,7 V 1,8 Ah Li-ion Max. electric current: 0,3 A
Pressure and level (DRT transducer)	Relative pressure Range: 0-20 bar (standard) 0-50 bar (optional) Resolution: 0,1 bar Combined error (0...50°C): $< \pm 1\%$ of F.S. Breaking overpressure: > 35 bar (75 bar for range 0 - 50 bar) 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: limited by integrated protection devices
Inputs	N°2 4...20 mA inputs (option in alternative to DRT cell)
Visual indications	N°1 blue LED $\varnothing 5$ mm for unit activity indication
Pneumatic connections	1/4" NPT female or 1/4" G female
Housing	White stainless steel for wall mounting, size 210 x 216 x 134 mm, waterproof degree IP 65
Communication	SMS sending on GSM network
Weight	2.880 gr. /3.300gr. with solar panel
Operating Temperature	-20...60°C
Reference standards and directives	DE 2006/95/EC DE 2004/108/EC, EN 61000-6-1 CE EN 61000-6-3

OUTLINE



ORDERING INFORMATION

Codice	Description
0001-00-001	MINICRIO 2/20: Local and remote monitoring unit for cryogenic tanks with level and pressure transducer, range 0-20 bar relative and 0-2 bar differential, English labeling
0001-00-011	MINICRIO 2/50: Local and remote monitoring unit for cryogenic tanks with level and pressure transducer, range 0-50 bar relative and 0-2 bar differential, English labeling
0001-00-041	MINICRIO ENG 4-20mA: Control unit for 2 pressure sensors 4-20 mA. English labeling
0001-00-100	Kit Solar panel 5W: Kit complete of stirrup for mounting, solar panel 5 Watt and cable for power supply 0,8 mt.
0001-00-050	POWER SUPPLY for MINICRIO: 230 Vac/24 Vcc - 1,2 A switching power supply, PVC housing for wall mounting IP65.