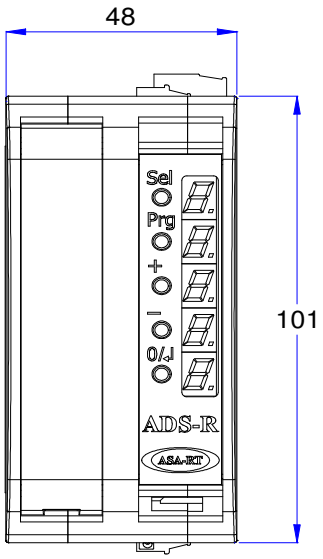
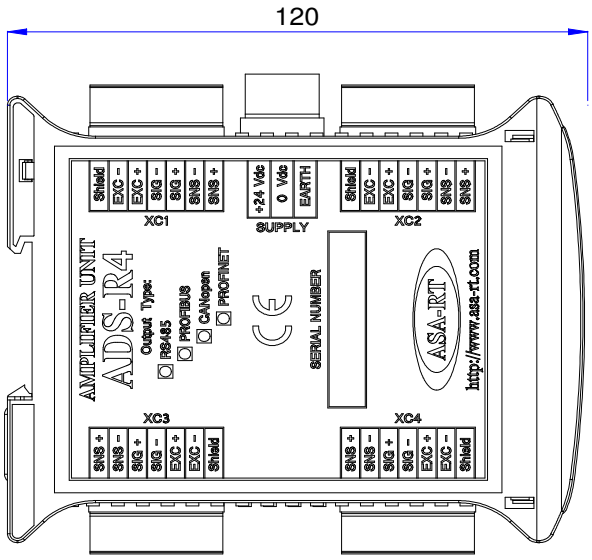
ASA-RT s.r.l.
Via Monginevro 262/7, 10142 Torino, ITALY
Tel +39 011 5360884 - FAX +39 011 19835705
E-Mail: info@asa-rt.com http://www.asa-rt.com

Multichannel amplifier with fieldbus interface

ADS-R4

Technical data sheet ADSR4 / v7 / 2



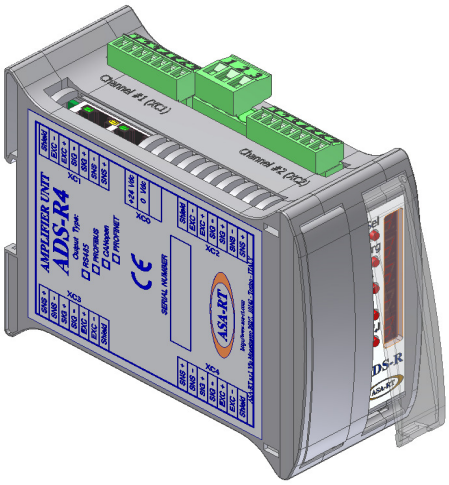


Dimensions in mm

PROFINET

CANopen

PROFIBUS



ADS-R4 is a digital multichannel measuring amplifier for strain gauges bridge, that permits to concentrate up to 4 load cell signals on a single unit with fieldbus interface Profinet I/O, Probibus DP or CANopen DS404.

Every measuring channel has its own 24bits AD converter, with programmable gain.

In the **standard mode** on each channel is possible to operate the analogue signal zeroing (calibration), and the signal gain increasing / decreasing, by a three-buttons interface; on the display is continuously shown the value that it is sent to the supervision unit allowding a regulation on field without any auxilary implements (like screwdriver or multimeter).

In the **advanced mode** (selectable by a special combination of keys), it is possible to program all operational parameters of the units, by the keyboard and the display: zero, gain (full scale in engineering unit), pass-band of the filter on the signal etc.; in normal operation, the display visualises the tension measurement, calculated according to the current parameters.

ORDER CODE

ADS-R4 [ ]

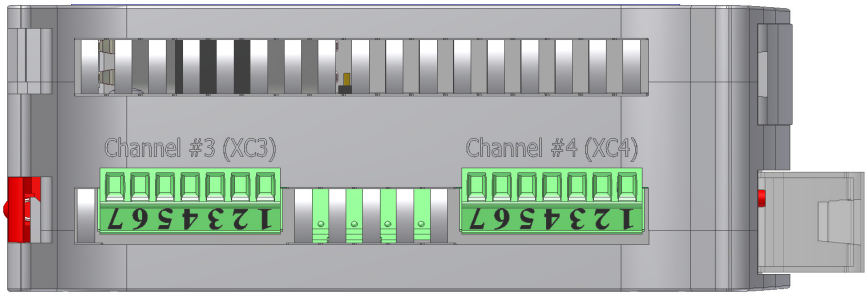
Family identifier

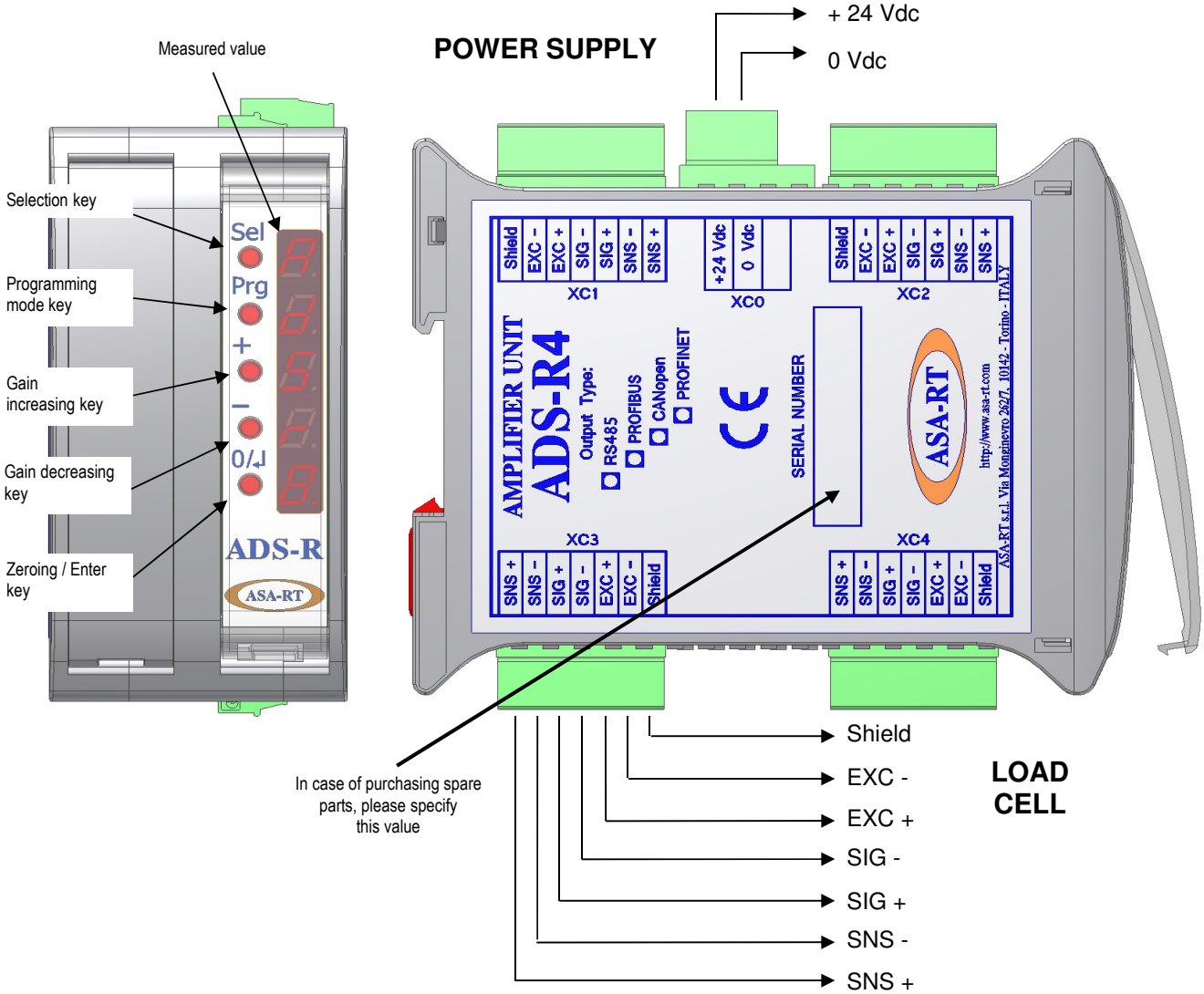
/ P: with interface ProfiBus (DPv1)
/ C: with interface CANopen (DS404)
/ PN: with interface Profinet I/O

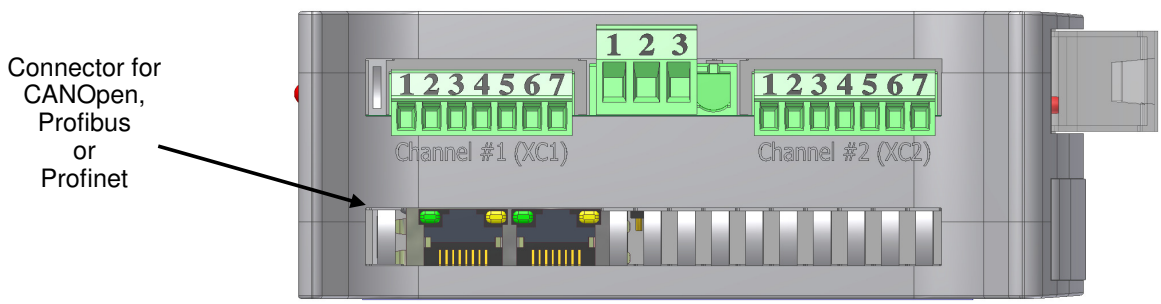
TECHNICAL DETAILS

- External power supply 24VDC / ± 10% - 5W
- Four interfaces for strain gauges bridge, each characterised by:
  bridge supply 5 VDC.
  30 mA per measuring channel (2 load cells 350 Ohm in parallel).
  acquisition with 24 bit ADC converters with independent sense wires
  Linearity 0,05% F.S. - thermal drift 0,001% F.S. / ℃
- Assembling on DIN guide step 55 mm.
- Optional Profinet I/O expansion card on RJ45 connectors, with integrated 2-ports switch.
- Optional Profibus DPv1 expansion card on DB9 connector
- Optional CANopen DS404 expansion card on DB9 connector

ELECTRICAL CONNECTION







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