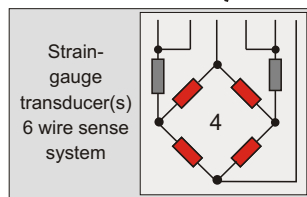
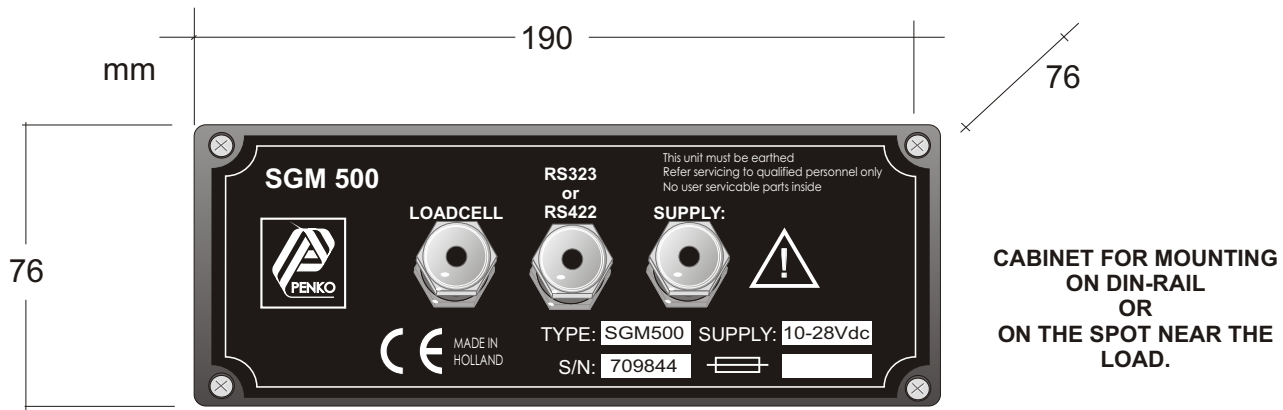


Digitizer SGM500

Amplifier + digital control

- all weight indicator functions available
- power supply 18 - 36 V dc \pm 10%
- excitation- 10V dc, with sense
- for 1 - 4 loadcells 350 ohm
- 1000 conversions / sec
- 16 bit internal resolution
- output RS 422 opto isolated
- up to 32 devices on one bus
- fully software controlled
- weight value ready for display
- communication - ASCII commands



RS 422 ASCII commands.

Example query net value.

Send : GN <CR>
Receive : N+03.005<CR>

Example set zero.

Send : SZ <CR>
Receive : OK<CR>

Example set tare.

Send : ST <CR>
Receive : OK<CR>



Specifications

Power supply	18 - 36 V dc.
Readout	Maximum reading +/- 99999.
Measurement	6 - Wire sense system for 1 - 6 load cells 350 Ohm.
Sample rate	1000 conv/s.
Resolution	Up to 64.000 parts. (16 bit)
Excitation voltage LC	10 Vdc
Wiring	Full Wheatstone bridge with sense connections.
Sensitivity	2 mV/V. Other values on request
Dead Load	Digitally compensated.
Temperature range	Operating -10 - +40°C. Storage -25 - + 80°C.
Linearity error	0.003 % FS max.
Span stability	3,5 ppm/°C max (by 2mV/V).
Zero stability	150 nV/°C max.
RFI protection	Signal, excitation and sense lines are protected by pi filters.
Polarity	Uni- or Bipolar input range.
Input overload	± 12 V.
Analog filter	12 dB/octave e.g. 40 dB/decade 2,5Hz
Digital filter	36 dB/octave e.g.120 dB/decade10 Hz
Calibration	Software calibration and set-up.
Communication	RS 422 - full duplex.
Baudrate	9600 - 19k2 - 38k4 - 115k2 kHz.
Bus	Up to 32 devices on one bus.
Housing	Polyester IP 65.
Dimensions	190 x 76 x 76 mm.

Technical improvements may cause the specifications to change.

