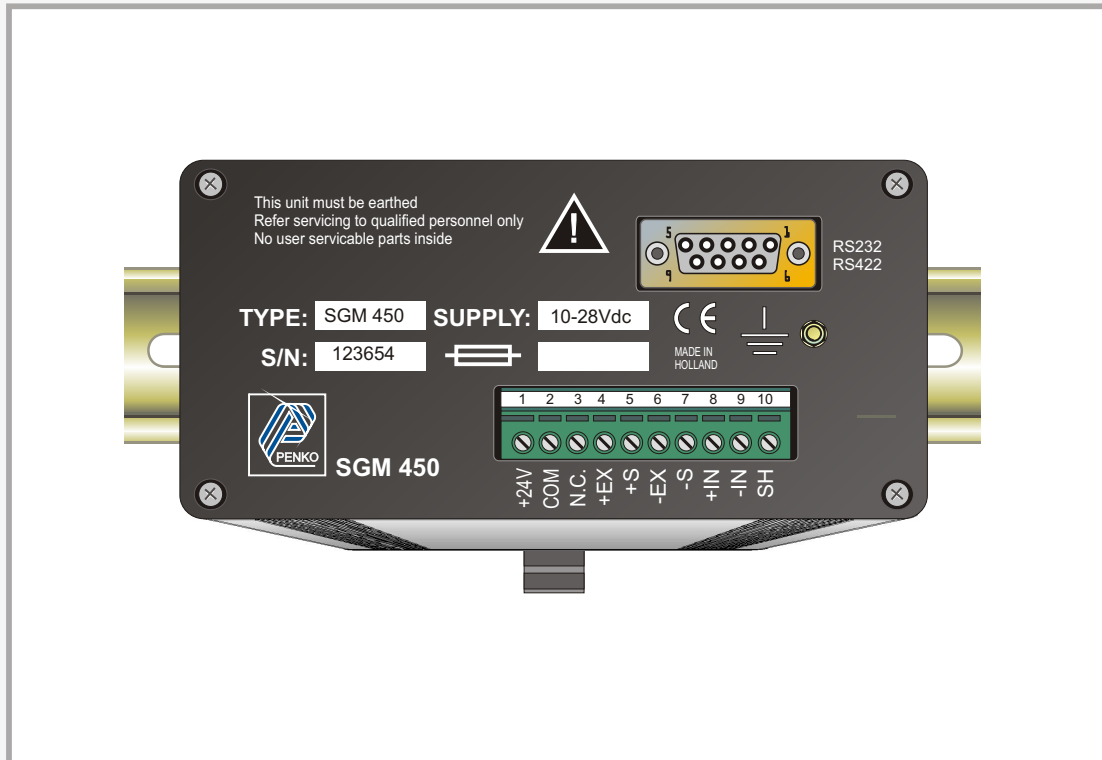


SGM 450

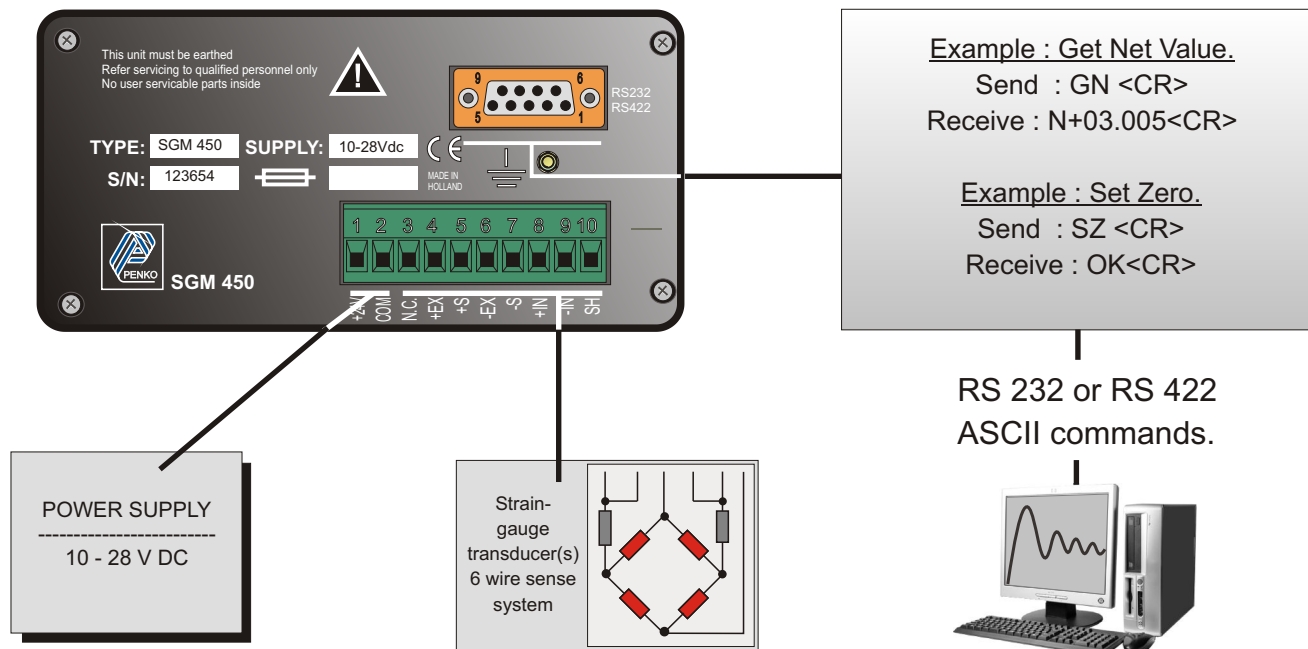
Strain Gauge Amplifier with Digital Control

SENSOR
TECHNIQUES LIMITED



Amplifier with digital control, Model SGM 450

- All weight indicator functions available
- Power supply 10-28 V DC
- Load cell excitation 10V DC to 1KHz AC with sense
- Will drive up to 6 Load Cells, 350 Ohm
- 50 conversions per second
- 24 bit internal resolution
- Output RS 232 or RS 422
- Up to 32 devices on one bus (RS 422)
- Fully software controlled
- Communication via ASCII commands



Specifications

Linearity	: < 0,003 % F.S.
Excitation Voltage	: 10 V DC or AC up to 1KHz (default 250Hz) with active ratiometric sense circuit, driving up to 6 transducers with 350 Ohm bridges
Input Signal Range	: 0.5..3.5mV/V in 6 steps
Polarity	: Unipolar or Bipolar input range
Input Overload	: ± 5V
Maximum read out	: ± 99999
Sample rate	: From 50 samples per second to 0.2 samples per second (default 50 samples/second)
Resolution	: Up to 16,000,000 parts (24bit)
Dead Load	: Digitally compensated
Digital Filter	: Provides rejection of all frequencies above 12Hz
Calibration	: Software calibration and set up
Communication	: RS232 or RS422 full duplex
Baudrate	: 9k6, 19k2, 38k4, 115k2
Bus	: Up to 32 devices on one bus (RS422)
Temperature Effect Zero	: < 3.5ppm/°C
Temperature Effect Span	: < 150nV/°C
Temperature Range	: -10°C to +40°C
Storage Temperature Range	: -25°C to +80°C
Housing	: Extruded Aluminium, DIN rail mounting
Dimensions (H x W x D)	: 68 x 138 x 70 mm
Weight	: Approx. 0.46 kg
Power Supply	: 10 - 28 V DC

DSSGM450-2, 9/98