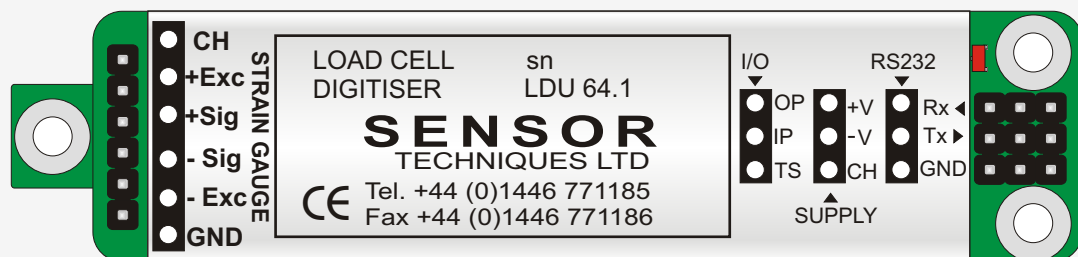


# LDU 64.1

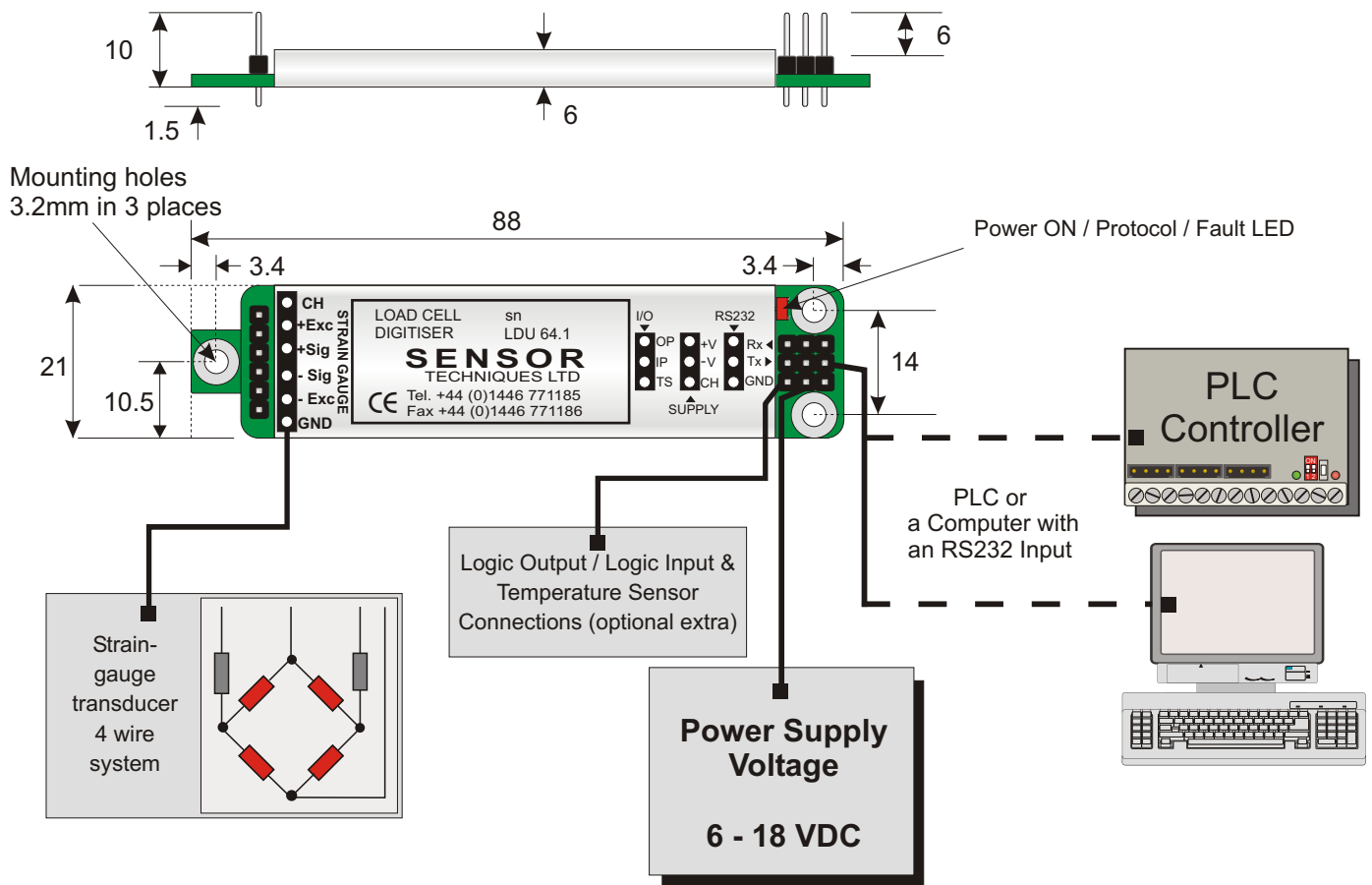
Strain Gauge Amplifier with Digital Output

**SENSOR**  
TECHNIQUES LIMITED



## Amplifier with digital output, Model LDU 64.1

- Linearity < 0.0025% of full scale
- Module power supply 6 - 18 VDC
- Power ON / Protocol / Fault LED indicator
- Drives one Load Cell, 320 ~ 5000 Ohms
- Input signal range  $\pm 3.0$  mV/V
- A/D resolutions from 5,000 to 100,000 counts (noise free)
- RS232 output in ASCII format, 9600 to 38400 baud
- Adjustable dynamic recursive filter
- Shielded PCB construction
- Dimensions 88 x 21 x 11.5 mm



Specification

Specifications are subject to change without prior notice

Linearity	: < 0.0025 % F.S.
Excitation Voltage	: 5V DC, driving 1 transducer with 320 ~ 5000 Ohm bridge (maximum cable length 1m)
Measurement mode	: 4-wire ratiometric
Input Signal Range	: ± 3.0 mV/V
Signal Filter	: Dynamic recursive filter, adjustable, 3 levels
A/D Conversion Rate	: Selectable ; 1, 10, 100 or 500 conversions/second
A/D Resolution (Noise free)	: Dependant on the A/D conversion rate ; 100,000, 30,000, 10,000 or 5000 counts
Output Communication Format	: RS232 full duplex ASCII protocol with baud rates selectable between 9K6 and 38K4
LED indicator	: Flashes every 0.5 secs to indicate ASCII protocol & no faults
Temperature Effect Zero	: < 10ppm/°C
Temperature Effect Span	: < 50ppm/°C
Temperature Range	: -40°C to +85°C
Connector : Load Cell	: 6 pin, single row in-line connector, industry standard 0.7mm A/F, 2.54 mm pitch
: Power Supply /Output /	: 6 pin, triple row in-line connector, industry standard 0.7mm A/F, 2.54 mm pitch
: Logic I/O & Temp Sensor	: Optional extra
Construction	: PCB with steel shield case
Environmental Protection	: IP40
Dimensions	: 88 x 21 x 11.5 mm ( W x D x H including connector pins)
Weight	: Approx. 20g

DSLDU64.1-3,09/05