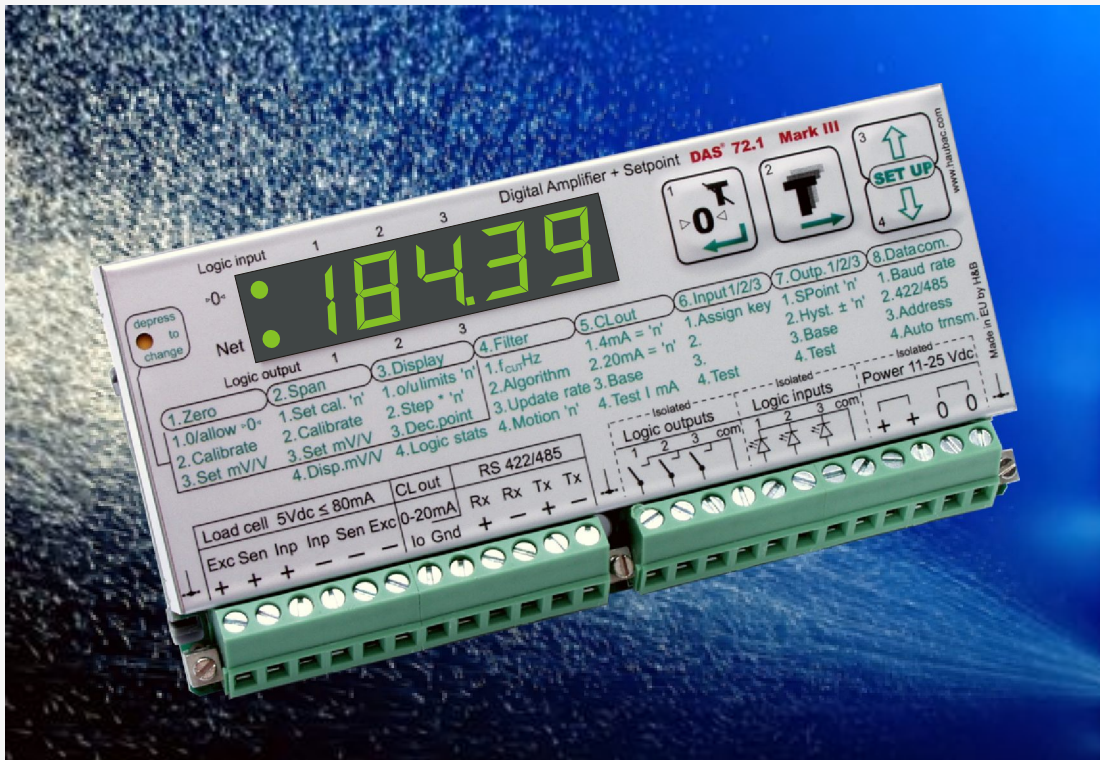


# DAS 72.1

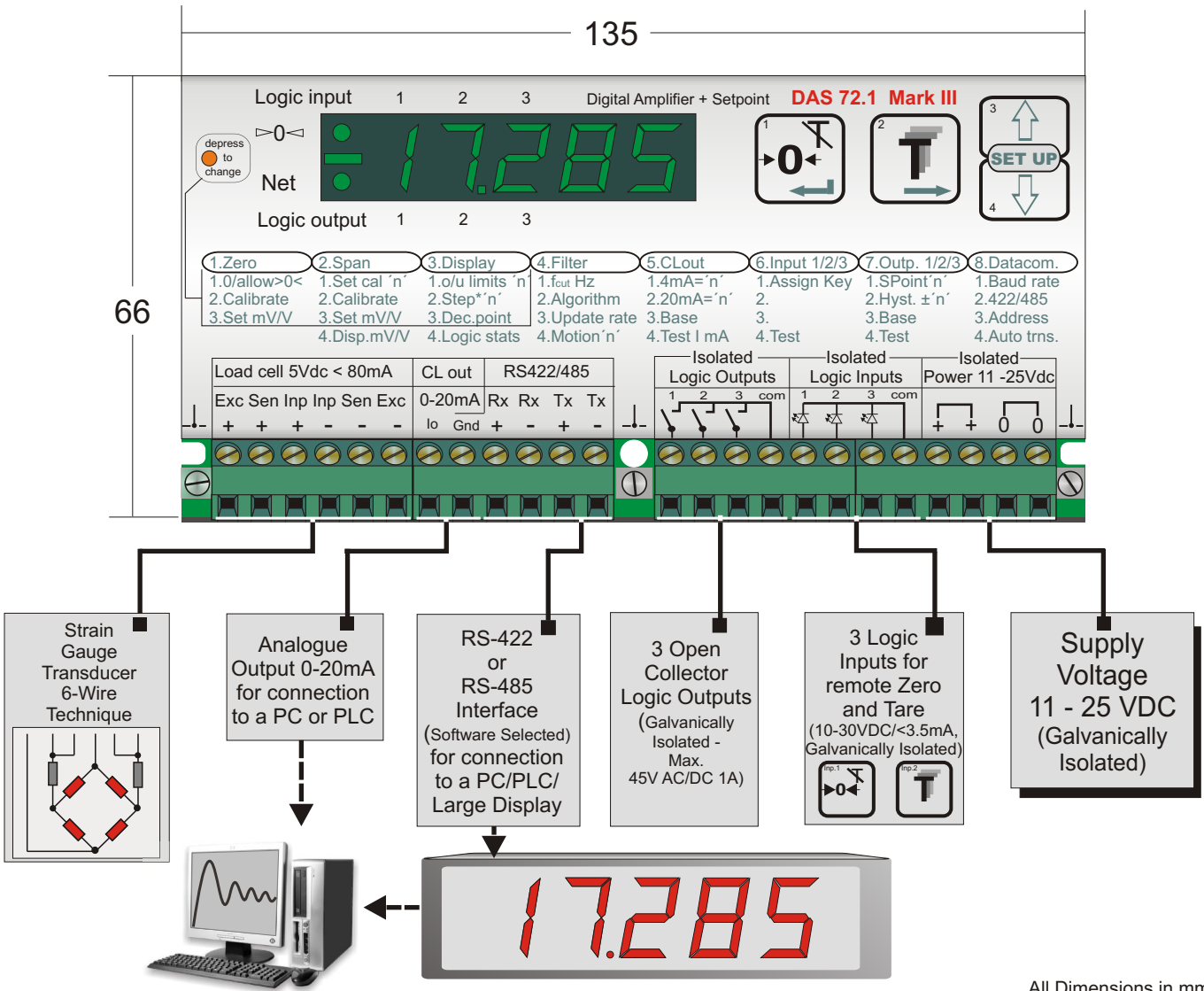
Digital Amplifier with Analogue Output & Setpoints

**SENSOR**  
TECHNIQUES LIMITED



## High Speed, Precision Digital Amplifier with Analogue Output and Setpoints

- **NEW** Now with non-volatile tare and peak hold facilities
- Can be calibrated directly from load cell mV/V sensitivity
- 2400 internal conversions/second ± 18 bit resolution
- Linearity better than 0.002% signal resolution ~50nV
- Designed to drive four 350 Ohm Load Cell ± 3.2mV/V max.
- Digital display maximum -99,999 to +99,999 counts
- Supply voltage from 11- 25 VDC
- Analogue output 0-20mA accuracy 0.02% 600 updates/sec
- RS-422/RS-485, 2 or 4 wire Computer Interface
- 3 Optically Isolated Logic Inputs
- 3 Optically Isolated Open Collector Logic outputs
- Din rail clip mounting



Specifications

All Dimensions in mm  
Specifications are subject to change without prior notice

Linearity	: < 0.002 %
Bridge Supply Voltage	: 5V DC, driving up to 4 off 350 Ohm load cells (80-2000Ohms)
Input Signal Range	: 0...±16 mV, equivalent to 0...±3.2mV/V
Signal Filter	: selectable from 0.25 Hz to 19.7 Hz, low pass filter
Analogue Output	: 0...20mA, 14-Bit resolution, freely programmable to follow net, gross or peak values
Digital Display	: 10.2 mm LED display, 5 digits and 3 additional LEDs: ' ' Sign, Nett and Motion active
ADC Resolution	: ± 18-Bit ADC, Display max. -99999 to 99999
Tare Facility	: Non volatile
Digital Logic Inputs	: 3 optically isolated; 10...30 VDC logic inputs for remote control
Digital Logic Outputs	: 3 optically isolated Open Collector outputs, max. 45V AC/DC 1A
Computer Interfaces	: 2 wire or 4 wire RS-422/RS485, not isolated, 9600 baud to 115200 baud Bus addresses from 0...255
Temperature Effect	: <10ppm/°C on the Zero and <8ppm/°C on the Span
Temperature Range	: -15°C to +50°C (working) -20°C to +60°C (storage)
Housing	: Metal case (IP40) with Din rail clips
Dimensions	: 135 x 66 x 18 mm, Weight approximately. 180g
Supply Voltage	: 11-25VDC +20% -9% max. <3W galvanically isolated

DS-DAS72.1MkIII-2, 06/07



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Precision Load Cells  
Accessories and Mountings  
Measuring Instruments and Systems