

**Portable Battery Powered
Hand Held Strain Gauge**

DIGITAL INDICATOR

**SY021
Series**



- **Powered by 4x AA internal batteries, giving up to 45 hours use**
- **5 Digit Display**
- **Compatible with Strain Gauge Based Sensors**
- **Digital Scaling**
- **Memory for up to 50 individual calibrations per channel**
- **Peak Capture**
- **Robust Construction - Sealed to IP54**
- **3 YEAR WARRANTY**

Options Available

Rechargeable Alkaline Batteries & Charger

RS232 Serial Output

Super-Fast 1 millisecond Peak-Hold

DESCRIPTION

The SY021 load meter is a completely portable, precision strain-gauge input instrument packaged in a small handheld ABS enclosure sealed to IP54.

Designed to be used with all types of strain gauge based sensors and transducers, it will accept an input between 0-0.5mV/V and 0-4.5mV/V.

The operator has access to a full numeric keypad. These enable all programming and operational functions to be accessed from the front panel, including tare and peak-hold.

The SY021 is available as either a 1 or 2 channel instrument with a memory of 50 load cell calibrations per channel, enabling a single instrument to be used with many different sensors. There are two methods of calibration, live load and shunt with a fine adjustment "nudge" feature.

Four 'AA' size alkaline disposable or rechargeable batteries provide up to 40 hours usage before new batteries or re-charging is necessary.

Transducer Specialists...

APPLIED MEASUREMENTS LIMITED

3 MERCURY HOUSE - CALLEVA PARK - ALDERMASTON - BERKSHIRE - RG7 8PN - UK

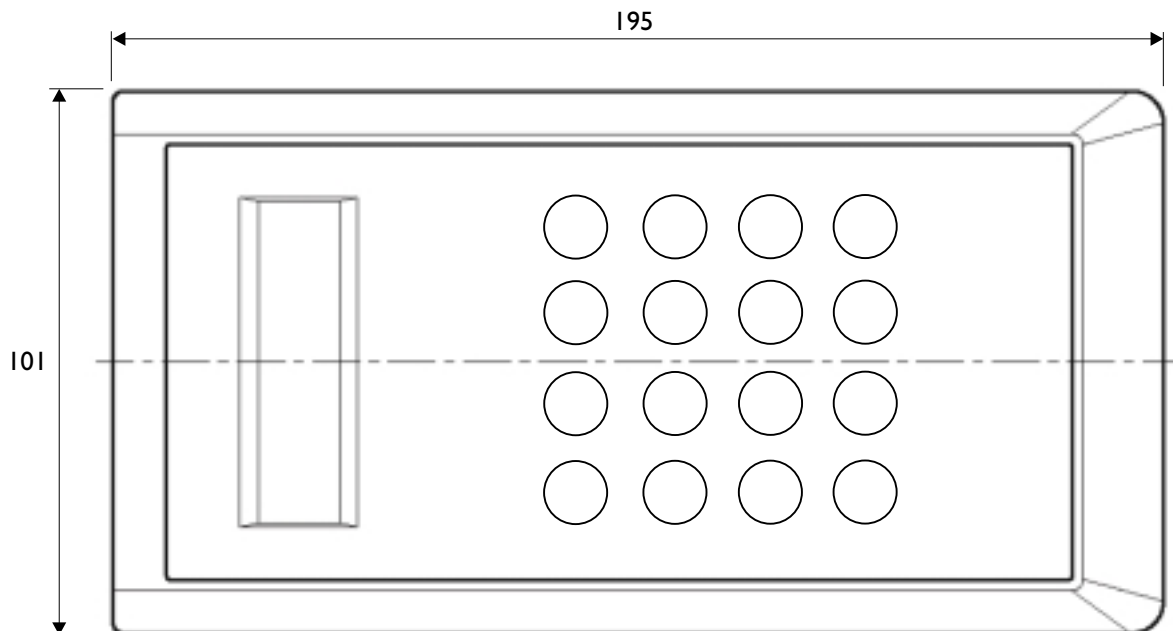
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SPECIFICATION

CHARACTERISTICS	SY021	UNITS
Display:	5 digit LCD (± 99999) (2 lines)	
Number of Channels:	1 or 2 simultaneously read (independent 2nd channel opt.)	
Accuracy:	$\pm 0.007\%$	Non-linearity as % of full scale
Bridge Excitation:	5.0 pulsed	volts dc
Input Range:	0-0.5 to 0-4.5	mV/V for display reading of ± 19999
Minimum Bridge Resistance:	50ohms (6x 350ohm sensors in parallel)	
Electrical connection:	4-pin locking audio DIN connector (Binder connector opt.)	
Operating Temperature:	-5 to +50	$^{\circ}\text{C}$
Thermal Drift:	<50	ppm/ $^{\circ}\text{C}$
Integral Battery:	4x AA (re-chargeable - optional)	
Battery Life:	45 (when a 350 ohm sensor is connected)	hours
Keypad:	Tactile, Full Numeric	
Environmental Protection:	IP54 (when mating plug fitted)	
Enclosure type:	Black ABS	
Communications:	Optional RS232	
Datalogging:	4000 events (RS232 output required)	
	CE Compliant	

All dimensions in millimetres



Depth: 44 max.

