

## AN 5000 Load Monitor/ Signal Conditioner/Display

### FEATURES

- 1 or 2 transducer power supplies: 5 V or up to 4 transducers 10V supply (120 mA)
- 5.5 red digits
- Reset, Tare, Peak and Valley Functions
- Analog output-10V/+10 V on front panel
- Programmable with Front-Panel Keys
- Security keylock function
- 10 acquisitions per second
- Quick LEMO connection on front panel for load transducers



### DESCRIPTION

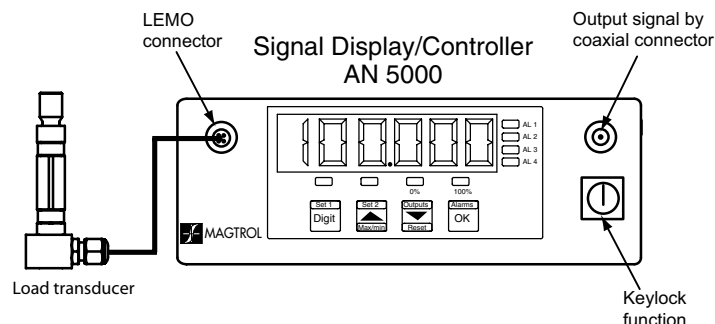
The AN 5000 Load Monitor is designed to process and display signals coming from various types of transducers (weight, load, pressure, torque, etc.) that use standard strain-gauge bridges.

The monitor provides selectable excitation voltages (5 V or 10 V) to accommodate transducers of various types and sensitivities. The programming method allow scaling the meter to operate in the desired engineering units.

Standard features include the reading of the input variable as well as reading and memorization of max and min values (peak / valley), tare and reset function.

The AN 5000 is used with Magtrol Load to measure load and force and provide overload protection. Magtrol also offers a wide range of Load-Force-Weight Transducers in various executions and accuracy classes. Load Monitoring Units (LMUs) that constitute an ideal safe measurement system which continuously checks for short-circuits and interrupted signal lines are also provided.

### SYSTEME CONFIGURATION



**CHARACTERISTICS**

<b>MEASUREMENT CHARACTERISTICS</b>	
Transducer Power Supply	5 V; 40 mA or 10 V; 120 mA
<ul style="list-style-type: none"> <li>• Excitation:               <ul style="list-style-type: none"> <li>• Strain Gauges</li> </ul> </li> <li>• Conversion Speed</li> <li>• Conversion Definition</li> <li>• Response Delay (P filter):               <ul style="list-style-type: none"> <li>• Cut-off Frequency</li> <li>• Slope</li> </ul> </li> </ul>	5 V; 40 mA or 10 V; 120 mA 10 conversions/second 15 bits 4 Hz to 0.05 Hz 20 dB/decade
Measurement Display <ul style="list-style-type: none"> <li>• Type</li> <li>• Number of Digits</li> <li>• Digit Height</li> <li>• Programmable Digit Color</li> <li>• Display Refresh Rate</li> <li>• Decimal Point</li> </ul>	7-segment alphanumeric display 5.5 digits 14 mm high (=0.55 in.) red 10/s programmable
Accuracy <ul style="list-style-type: none"> <li>• Maximum Error</li> <li>• Temperature Coefficient</li> <li>• Warm-Up Time</li> </ul>	± (0.1% of the reading + 2 count) 100 ppm/°C 5 min
Overrange Indication	0UFLo
<b>OPERATING INDICATIONS (LEDs)</b>	
Thresholds 1, 2, 3 and 4	4 red LEDs
Control Indication	4 red LEDs
<b>POWER SUPPLY</b>	
AC	230 VAC; 50/60 Hz ±10%
<b>ENVIRONMENTAL AND MECHANICAL CHARACTERISTICS</b>	
Operating Temperature	0°C to +50°C
Storage Temperature	-20°C to +70°C
Relative Humidity, Non-Condensing	<95% at 40°C
Protection Class	IP 65 front panel
Housing Material	metalwork
Weight	1.5 kg (3.3 lb)
Dimensions	178x205x65

**ORDERING INFORMATION**

Part Number: AN 5000 / ANB / BATT

*Due to the continual development of our products, we reserve the right to modify specifications without forewarning.*


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