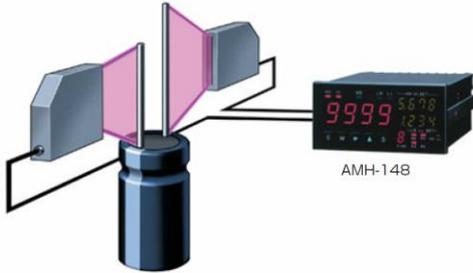


APPLICATION EXAMPLES

Measurement and decision by detecting lead length of three capacitors

Using 2-input (Ach and Bch) operation function

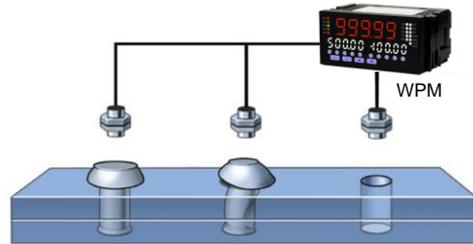
Input the sensor detection signal into Ach and Bch of AMH-148 and inspect the lead cut length using the operation function (A-B). The operation result is compared and decided at a high-speed sampling rate of 1000 times/second. Furthermore, it is possible to find the maximum and minimum of the calculated value using the peak-hold and valley-hold functions.



Inspection of riveting status

Memorizing several pass/fail decision ranges using the pattern selection function

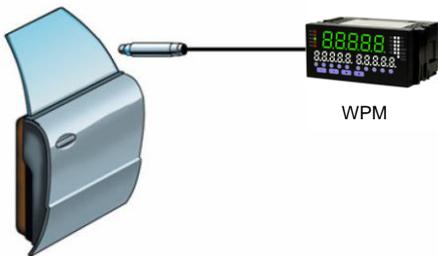
The pattern selection function can memorize 8 kinds of upper upper-limit, upper-limit, lower-limit, and lower lower-limit set values and hysteresis values, as well as 8 kinds of scaling values. The tolerance range can be instantly switched with the front switch. This is very useful for flexible lines that contain multiple materials.



Detecting warp of door glass with differential transformer

Power supply for sensors incorporated (Built in excitation)

Models WPM-1, AM-147 and AM-215A have an internal 12 VDC and 24 VDC power supply for external equipment. This power supply is useful when connecting a sensor with an internal amplifier. Using a direct setting function allows easy input of setting of decision values HH, HI, LO, and LL using the actual measured sensor detection data.



High-speed decision by high-speed mode

Deciding the clearance of piston ring at high speed

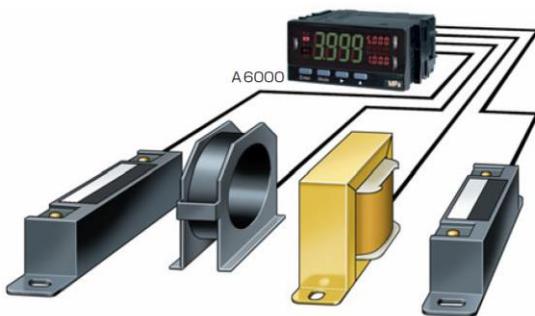
The sequential A/D conversion method enables decisions at a rate of 4000 times/second. This is very useful for environments with a short inspection process time.



Measurement of large current and high voltage

Connect to CT, PT, DC Voltage divider, shunt resistor

For example, digital panel meter A6000 for AC measurement has standardized range for CT connection. This meter inputs 5A on secondary side of CT to enable scaling of any current value on the primary side.



Food processing and process control

The dustproof and waterproof structure allows washing from the front panel

Models WPM-1, ATC-217 conform to the IP66 standard. These models are best suitable for temperature, pressure, and weight measurements made in the HACCP process control.



APPLICATION EXAMPLES

Measuring mixing volumes of materials in tanks

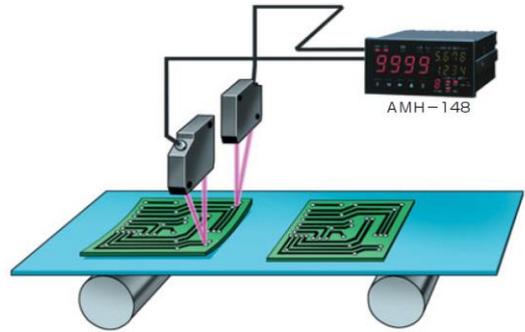
The A6000 series digital panel meter supplies power to load cells, subtracts tare weight and also has a built-in output circuit, thereby enabling the measurement of weight at low-cost. The A6000 together with load cells helps you make an appropriate mixed liquid by measuring the weight of each of two different chemicals.



Detecting warp of printed circuit boards

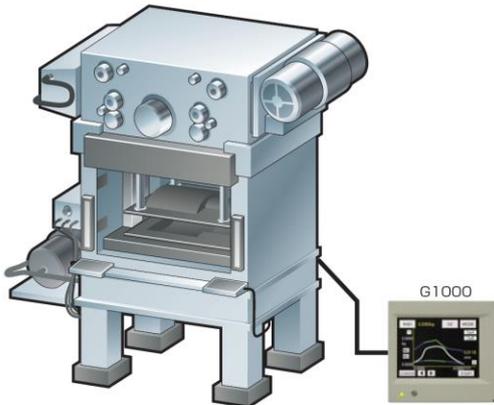
Using 2-input (Ach and Bch) operation function

The analog signals from the laser displacement sensors installed at two locations of a printed circuit board are input to Ach and Bch of AMH-148 and A - B is calculated to detect product defects.



Measuring and evaluating press fitting of caulking and pressing

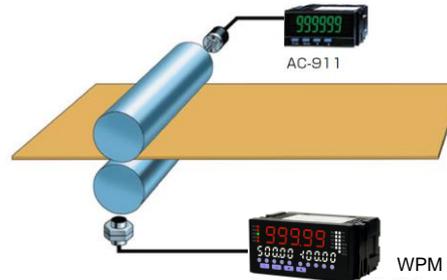
It is suitable for the detection of the waveform at a pressure inflection point.



For rolling management

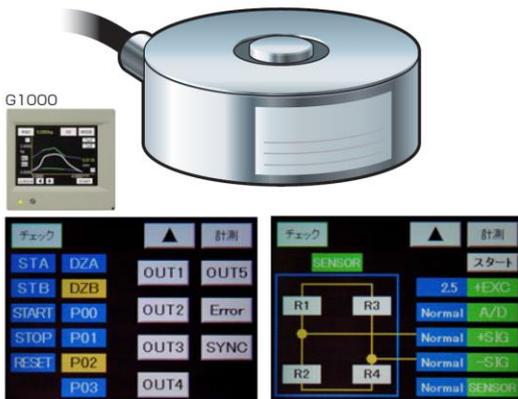
The rolling process is controlled by revs of the rolling roller and up/down travel distance

When a rotary encoder is connected to the roller shaft, the shaft revs is displayed and an alarm is output by AC-911. Furthermore, visual warning is enabled with the distance display, alarm output, and changing display colors by inputting the eddy current sensor output to WPM-1.



Compatible with other company's load cell

Detects cable disconnection of sensor by self-diagnosis function.



Measuring distortion of round bodies and eccentricity of shaft

The peak valley hold a laser displacement or eddy current sensor is used to measure irregularity of round shaped bodies or bending of shafts.



APPLICATION EXAMPLES

Connection to Ethernet

Analog data on the digital panel is managed through the LAN.



Displaying gear revs

Gear revs is displayed by the gear sensor and AC series

Gear B revs can be found from gear A revs using the prescaling function.



Three sizes useful for selection when installing unit in a rack

Installation in a DIN size of 96 mm (W) x 48 mm (H), 72 mm (W) x 36 mm (H), or 48mm (W) x 24 mm (H)

A lineup of items is provided so that a size that matches the installation space can be selected according to the purpose.



Inspection of greasing precision parts

Inspecting whether grease is applied

WPM-1 has a power supply 24VDC(50mA) or 12VDC(100mA) for sensors, a scaling function, and an analog comparator, enabling low-cost inspection system.

