

Display Instrument Model 975 AP



testing equipment for quality management



Technical Description

**Force measurements -
simply and fast**

General

The **Display Instrument, Model 975 AP**, provides a convenient means of measuring and displaying forces in combination with ERICHSEN force transducers on a wire strain gauge basis. It is suitable for applications in all areas where forces need to be measured without bother and within the shortest possible time. Ease of operation makes this display instrument useful for a wide range of measuring tasks.

Description

The measuring and display electronics are designed for mains operations and installed in a sturdy aluminium box. The LED digital display on the front panel and the illuminated mains switch are easily identifiable, even from a distance. By way of the 7-pin socket on the rear of the box the force transducer can be disconnected quickly from the display instrument. The fuses, which are also located on the rear, are readily accessible, enabling rapid replacement.

A peak value memory is included in the standard Model 975 AP version. Minimum and maximum readings can be fetched by means of key operation.



Options

Two infinitely adjustable limit value outputs are available for this measuring and display instrument. These limit value outputs can also be used to relieve the force transducer and the specimens or for other monitoring purposes.

Model 975 AP can also be equipped with an exit hub providing an analogue output (voltage or current) proportional to the measured values.

A unidirectional RS232 or RS422 serial interface for transmitting the readings to a printer or PC can likewise be connected to the exit hub.

Technical Data

Housing:	255 x 270 x 110 mm, made of aluminium
Weight:	approx. 2.2 kg
Measuring range:	dependent on connected force transducer
Measurement uncertainty:	$\pm 0.1\%$ of measured value, $\pm 0.05\%$ of full scale
Measuring rate:	10 / sec
Temperature range:	0° C to 60° C (storage temperature -20° C to +80° C)
Temperature stability:	0.05% / °C
Humidity:	0 - 85 % without condensation
Power supply:	100 - 250 V / 0,05 A
Display:	4½-digit LED display, 0 - ± 19999 , 14 mm high, overflow and open circuit displayed by "- - - -"

Options

Limit value output:	5 - 24 V, 0.5 A external infeed
Analogue output:	Voltage signal: 0 - 10 V, (12 Bit) Accuracy 1% of upper range value, short-circuit proof or Current signal: 4 - 20 mA (12 Bit) Accuracy 1% of upper range value, short-circuit proof (alternative 0 - 20 mA)
Interface:	RS 232 bidirectional

Order Information	
Order No.	Name of product
24800131	Display Instrument, Model 975 AP

Subject to technical modification.
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