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# The NEW Measuring Column DIATRON 2200

New at  
CONTROL  
2008

Connecting of 1, 2 or 4  
HBT probes

Electronic column with 3-colour bar scale (red, yellow, green) and digital display. The column has an automatic function detecting the interface in use and informs the operator via the display. Programming of unit via the rotary-push switch on the front side or using software. The column can be equipped with modules for 1, 2 or 4 probes (HBT). Connection of other measuring systems on request.

### Measuring and indicating functions

#### Static measuring mode

**Dynamic mode:** Min, Max, Average, position tolerance, bore measuring mode with automatic function

**Multi-plane measuring mode:** Manual or automatic switching from 1...8 Measuring points

**Range / Resolution:**  $\pm 3,0$  mm/ $0,1\mu\text{m}$  –  $0,12/00001$  inch and  $\pm 30$  mm/ $1\mu\text{m}$ ,  $1,2/0,00001$  inch for inductive probes ; 24 bit incremental measuring systems

**Measuring unit:** mm and inch

**2-digit display:** Measuring point number (C1...C8); measuring input (P1...P8)  
Basic setting menu (L0...L9)

#### Display Range of 6-digit display:

Relative measurements:  $\pm 9.999\text{mm}/\pm 99.999$  mm,  $\pm .99999$  inch/ $\pm 9.9999$  inch

Absolute measurements:  $0...99.9999\text{mm}/0...999.999$  mm,  $0...9.99999$  inch/ $0...99.9999$  inch

Selection groups: 1...30

#### Range of bar scale:

$\pm 5,0000$  mm/ $\pm 0,500000$ "

$\pm 1,5000$  mm/ $\pm 0,15000$ "

$\pm 0,5000$  mm/ $\pm 0,05000$ "

$\pm 0,1500$  mm/ $\pm 0,01500$ "

$\pm 0,0500$  mm/ $\pm 0,00500$ "

$\pm 0,0150$  mm/ $\pm 0,00150$ "

$\pm 0,0050$  mm/ $\pm 0,00050$ "

Bar scale in 3 colours (red, green and yellow) with automatic colour change in accordance with selected tolerance limits.

A maximum of 4 tolerance limits can be programmed.

The tolerance limits are shown as coloured marks in the bar scale.

### Mechanical Characteristics

Housing: Aluminium anodised, plastic top and bottom parts

Foot plate: Aluminium powder-coated

Front plate: Acrylic glass

Operating element: rotary-push switch

Dimensions: Width x height x depth: 56 x 418,5 x 86 mm / approx. 1400 g (incl. foot plate)

### Electrical Characteristics

Power supply: 100...240VAC, 45...60 Hz

Maximum power input: 2,5 VA (without measuring modules)

### Display

Bar graph display: chart with 103 + 2 LED's for exceedance of range, 3 coloured, with automatic colour change (displayable tolerance markings)

Digit display: 6-digit and 2-digit LED display: 7,62 mm, red

Modus, unit, programmable menu display: 17 LED's red

### Connection

Interface RS232: 9-pin SUB-D plug, hardware EIA RS232 standard; data format according to OPTO RS232

2 x Trigger output/tolerance output (Ft 1/Ft2): trigger output for external contacts and serial output for control signal adaptor

### Measuring Data

Resolution: 16 bit (analogue), 24 bit (incremental measuring systems)

Measuring rate: 50 measurements/second

### Environment conditions

Working environment temperature: 0...45°C

Storage temperature: -20...+ 60°C

Type of protection: Front side IP65 (CEI/IEC 529)

Rear side depending on measuring module

### Electromagnetic compatibility (EMC)

Electromagnetic compatibility (EMC). Transient emissions according to EN50081-2

Interference resistance according to EN50082-2

