The KU-4 measuring transducer is used with the acoustic emission sensors AE-C or AE-C MICRO. The device may be operated in stand-alone mode or with the CTM Tool and Process Monitoring System. In stand-alone mode monitoring is set directly via the graphics-capable display and three push-buttons.

**Special Features**

- Monitoring of shaft tools in multi-spindle heads
- Breakage monitoring for drilling processes
- 'Contact detection' while grinding
- Installation on standard mounting rail acc. to DIN EN 60715
Acoustic Emission Measuring Transducer

KU-4

2 mounting holes Ø 4,5 mm

Dimensions
- see drawing

Weight
- 380 g

Material
- Makrolon

Degree of protection
- IP20

Contacting
- Screw terminals

Operating temperature
- 0 – 50 °C

Rel. humidity
- 5 – 85 % without condensation

Mounting
- Standard mounting rail acc. to DIN EN 60715
- screw connection

Voltage supply
- 24 V DC (18 – 36 V), stabilized, max. 5 % ripple

Nominal current consumption
- max. 250 mA

Programmable analog gain
- adjustable in 12 steps: 1, 2, 4, 8, 10, 20, 40, 80, 100, 200, 400, 800

Interface
- ARTIS sensor bus ASB (RS485)

Measuring inputs
- ARTIS Acoustic emission sensors AE-C or AE-C Micro

Frequency ranges
- 10 – 50 kHz, 50 – 150 kHz, 10 – 250 kHz, 100 – 250 kHz

Control inputs
- Tool Change (Nr. 1) 24 V DC
- Rapid Feed (Nr. 2) 24 V DC
- Operate 24 V DC
- Reset 24 V DC
- low 0 – 5 V DC, high 14 – 28 V DC

Switching outputs
- Coll. 1 (Out1) Material contact, open coll.-output, 18 – 36 V, up to max. 150 mW response time < 1 ms
- Coll. 2 (Out2) collision alarm, open coll.-output, 18 – 36 V, up to max. 150 mW response time < 1 ms

Operation
- within CTM system via operation panel of the NC control using the ARTIS CTM menu
- as stand-alone device using 3 membrane keys and the illuminated, graphics capable LCD display

Conformity
- CE

For a full list of address locations, please consult the Marposs official website

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