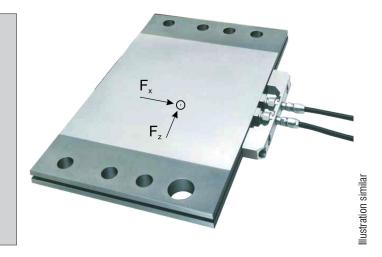
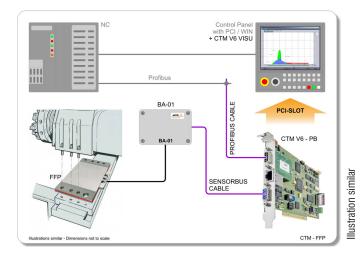


FFP STRAIN GAUGE MEASURING PLATE

Properties

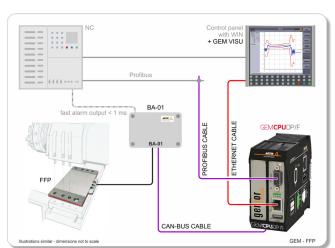
- · High sensitivity, fast response time, high signal stability
- Design as Wheatstone bridge circuit, thus thermally stable
- Direct recording of the cutting forces thanks to mounting in the main force flow
- · Easy mounting between sliding bed and turret
- Degree of protection IP65
- · Measures feed forces of one or two axes
- Linear response





Application example:

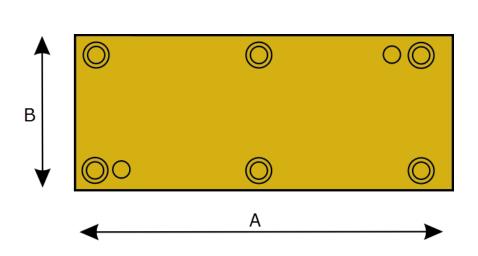
FFP Strain Gauge Measuring Plate with BA-01 Bridge Amplifier in the CTM Tool and Process Monitoring System

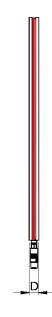


Application example:

FFP Strain Gauge Measuring Plate with BA-01 Bridge Amplifier in the GENIOR MODULAR Tool and Process Monitoring System







03PZ0912PPP

(PPP = Variant code, variants on request)

SUMMARY

The FFP strain gauge measuring plate exists in two basic variants: single-axis and dual-axis. Based on these two basic versions, the dimensions of the FFP measuring plates are adapted to the machine design. The basic conditions listed below apply. Further special designs on request.

	Thickness D (mm)	Area A x B mm²		Type/size 1-axis	Type/size 2-axes
GENERAL CONDITIONS valid for both variants:	12/15	< 32 000]	FFP – 4301 S1	FFP – 4301 S2
	12/15	< 50 000]	FFP – 4302 S1	FFP – 4302 S2
- for one-axis measuring - for two-axis measuring	15	< 90 000]	FFP – 4303 S1	FFP – 4303 S2
	15	< 130 000]	FFP – 4304 S1	FFP – 4304 S2
	15	< 200 000]	FFP – 4305 S1	FFP – 4305 S2

SIZE	Customized to requirements – minimum size 115 x 150 x 15 mm, max. size on request		
RANGE OF NOMINAL FORCE (FN)	2 kN to 100 kN (higher ranges on request)		
MEASURING DEVICE	Strain gauges, Wheatstone bridge design with four active elements		
DEGREE OF PROTECTION	IP65		
LINEAR EXPANSION ε	\sim 0.000047 at nominal force		
SENSITIVITY	~ 0.2 mV/V		

LINEARITY DEVIATION	<±1 %	
BRIDGE POWER SUPPLY	10 VDC	
BRIDGE RESISTANCE	350 Ω	
MAXIMUM LOAD LIMIT	800 % of nominal force	
CONFORMITY	CE, UKCA	

	Color	Description
	black	Supply voltage -
SENSOR CONNECTION	white	Signal -
	red	Signal +
	blue	Supply voltage +



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