

## CFW-XX PIEZOELECTRIC FORCE MEASURING SENSOR

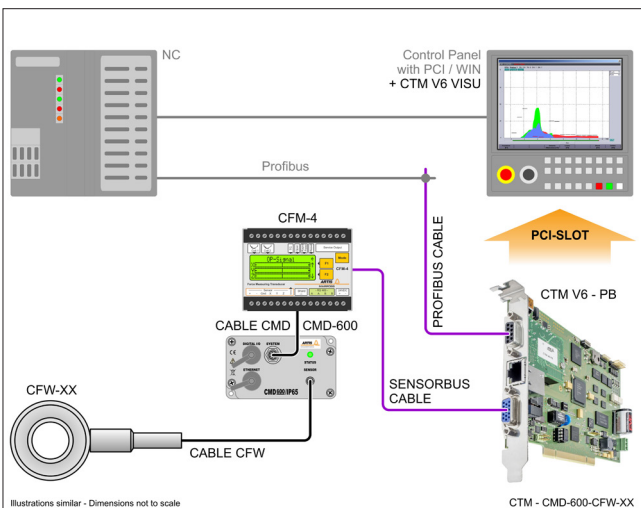
### Properties

- High sensitivity to detect smallest process force variations
- Suitable for rough environmental conditions
- Compact design
- Typical applications: hard turning and lathe finishing

The force measuring sensor is available in different sizes and – using the respective measuring transducer – suits all ARTIS monitoring units.

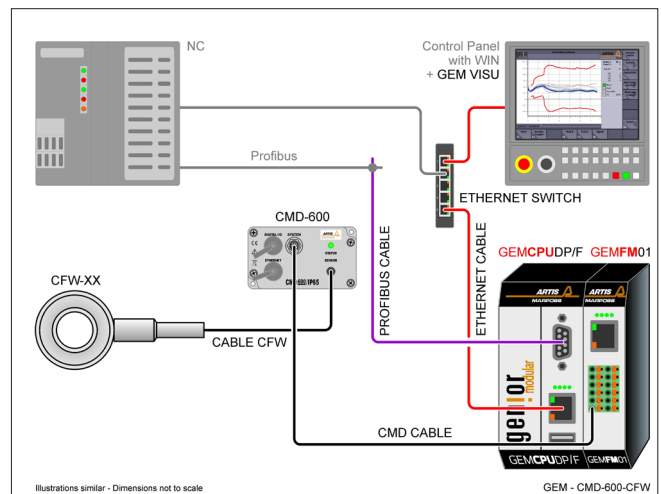


Illustration similar



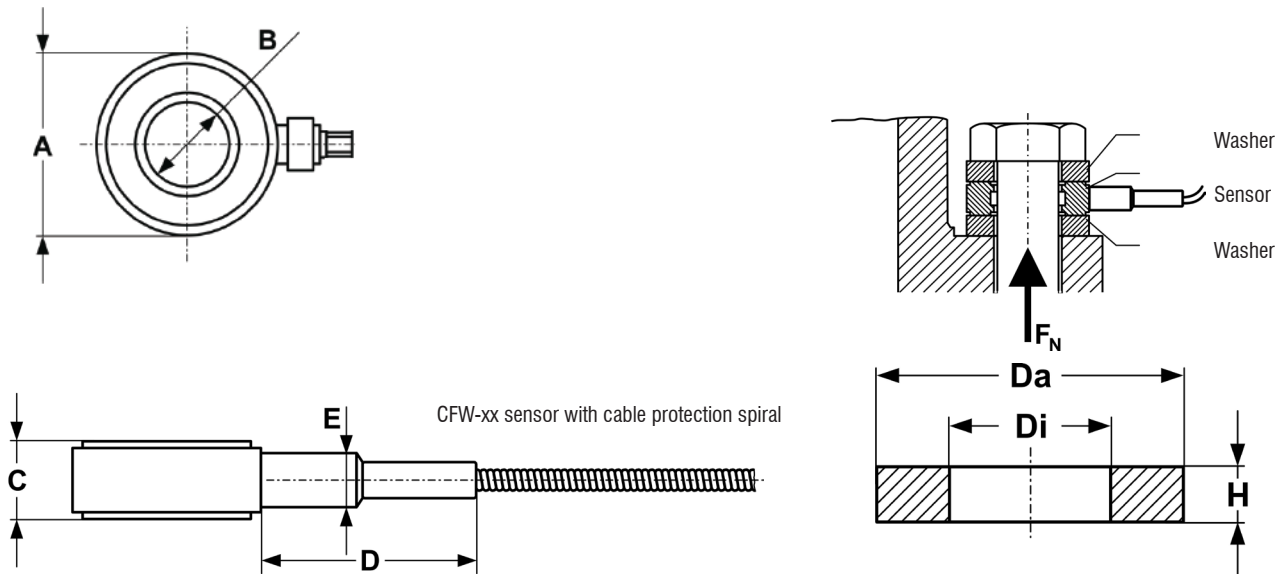
### Application example

**CFW-xx** with CMD-600 Charge Amplifier, CFM-4 Force Measuring Transducer and CTM V6 PB Tool and Process Monitoring System.



### Application example

**CFW-xx** with CMD-600 Charge Amplifier, GEMFM01 Force Measuring Transducer and GENIOR MODULAR Tool and Process Monitoring System.



	CFW-20* 03PZ0211003	CFW-50 03PZ0211005	CFW-100 03PZ0211006	CFW-140 03PZ0211004	Accessories	
NOM. FORCE	20 kN	50 kN	100 kN	140 kN	<b>Cable CFW, 3 m 06739797057</b>	
MAX. STRENGTH	120 % of nominal force					
DIMENSIONS	A	14.5	22.8	28.6	34.5	Connection cable between CMD-600 and CFW sensor, length 3 m.
	B	6.5	10.5	13	17	
	C	8	10.3	11.3	12	<b>CMD-600 0830Z712018</b>
	D	—	36	36	36	
	E	—	9	9	9	Digital charge amplifier, measuring range 50 – 600.00 pC.
	Da <sub>-0.1</sub>	17	24	26.5	34	
	Di <sup>+0.1</sup>	6.5	10	12.7	16	
	H	3	4	5	6	
FOR SCREWS	M6	M10	M12	M16	<b>Cable CMD, 20 m 06739797059</b>	
WEIGHT	0.009 kg	0.043 kg	0.070 kg	0.103 kg	Connection cable between CDM-600 and CFM-4	
REC. PRE-LOAD	7 kN	18 kN	30 kN	45 kN		
SENSITIVITY	-4 pC/N	-4.3 pC/N	-4.3 pC/N	-4.3 pC/N	<b>Set of washers M 6 04390140001</b>	
STORAGE TEMPERATURE	-40 °C to +120 °C					
OPERATING TEMPERATURE	-40 °C to +120 °C				<b>Set of washers M10 04390140002</b>	
DEGREE OF PROTECTION	IP65					
INSULATION IMPEDANCE	>10 MΩ				<b>Set of washers M12 04390140003</b>	
NOM. MEASURING PATH	2 μm	3.5 μm	5.8 μm	7.5 μm		
BASIC RESONANCE FREQUENCY	60 kHz	55 kHz	45 kHz	35 kHz	<b>Set of washers M16 04390140008</b>	
CROSSTALK						
from F <sub>xy</sub> to F <sub>z</sub>	0.03 N/N	0.03 N/N	0.004 N/N	0.03 N/N	<b>Set of washers M12 04390140003</b>	
from M <sub>xy</sub> to M <sub>z</sub>	0.002 N/Nm	0.002 N/Nm	0.002 N/Nm	0.002 N/Nm		
REL. LINEARITY ERROR	2 % of full scale				<b>Set of washers M16 04390140008</b>	
MATERIAL (SENSOR & WASHER)	Stainless steel					
SCOPE OF SUPPLY	Sensor, two washers				<b>Set of washers M16 04390140008</b>	
CONFORMITY	CE, UKCA					



www.marposs.com

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

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