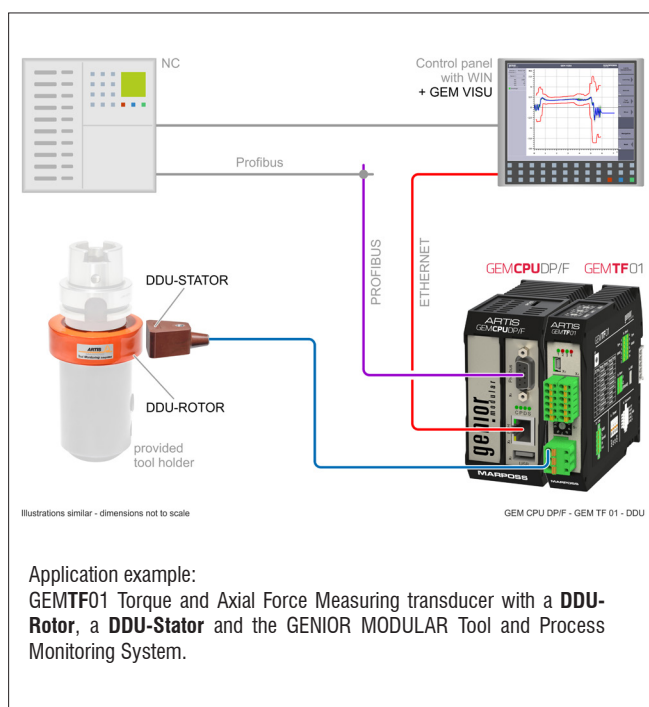
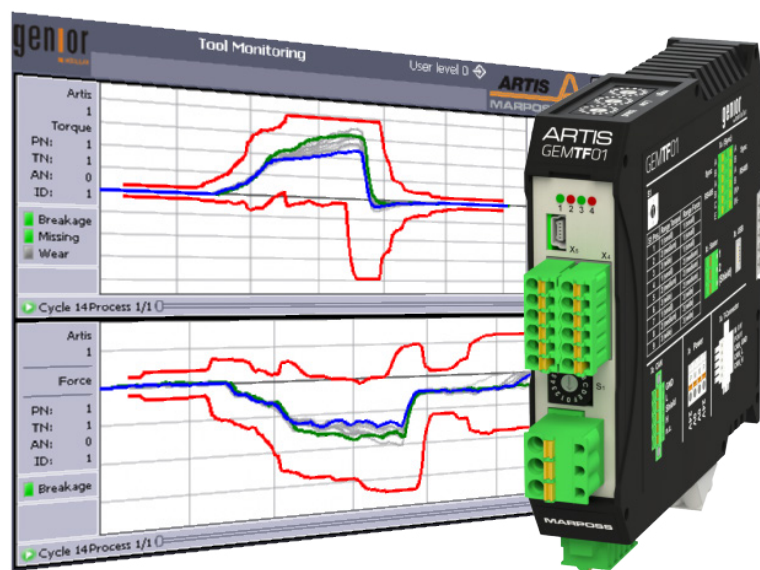


GEM TF 01 GENIOR MODULAR MEASURING TRANSDUCER FOR TORQUE- AND AXIAL FORCE SENSORS



Properties

- Component of the tool and process monitoring system GENIOR MODULAR
- Measuring transducer for connecting the DDU sensor system
- ARTIS CAN bus
- Top hat rail module
- Supply voltage 24 V

Applications

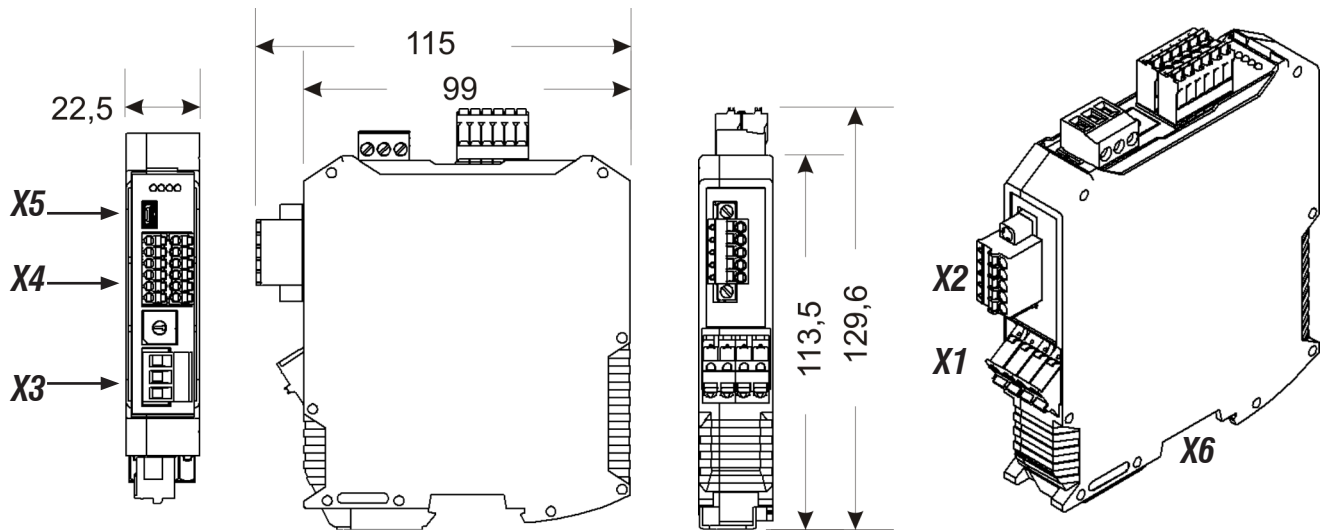
- Contactless monitoring of torque and axial force
- Monitoring of drilling and threading processes
- 3 measuring ranges each, for torque and axial force

Front view

bottom view

view from the right side

perspective view

**GENERAL DATA**

ARTICLE NUMBER	O830Z910302
DIMENSIONS	see drawing
WEIGHT	0.120 kg
MATERIAL	Polyamide PA 6.6
STORAGE TEMPERATURE	-20 °C... +60 °C
OPERATING TEMPERATURE	+5 °C... +50 °C
UL-CLASSIFICATION	VO (UL94)
DEGREE OF PROTECTION	IP20
RELATIVE HUMIDITY	5 % ... 85 %, no condensation
INSTALLATION	DIN EN 60715 standard mounting rail Wall assembly
CONTACTING	Spring terminals, screw terminals
OPERATION	Switch-over of measuring range CAN-Baud rate CAN Node-Id

MEASURING

MEASURING RANGES	3 ranges each, for torque and axial force; setting via rotary switch
ACCURACY	refer to the data sheet of the DDU sensor system
FREQUENCY RANGE	
SAMPLING RATE	
RESOLUTION	

CONNECTIONS

CONNECTION X1	24 V DC $\pm 20\%$, max. 5 % ripple (or via in-rail bus connector)
NOM. CURRENT CONSUMPTION	max. 300 mA
CONNECTION X2	CAN connection
CONNECTION X3	Sensor connection DDU stator
CONNECTION X4	1 open coll.-output, 5 – 40 V DC max. 150 mW Activation 18 – 36 V DC ARTIS CAN bus Synchronization bus USB Stator-connection
SWITCHING OUTPUTS	
CONTROL INPUTS	
INTERFACES	
CONNECTION X5	USB
DATA OUTPUT	via USB every 10 ms, format ASCII for feed and torque
CONNECTION X6	CAN-Bus, 24 VDC

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

ODN6422EN04 – Edition 01/2025 – Specifications are subject to modifications
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