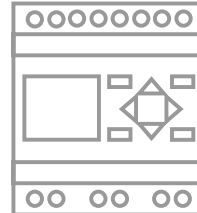


Inductive probes application



Probe interface with analogue output



Programmable Logic Controller (PLC)



Outputs

TESA M4P-3

4 Probe interface with analogue Output

The **probe** interface allows to connect 4 TESA inductive probes and convert the signal of the probes to analogue DC outputs connectable to:

- Programmable Logic Controller (PLC)
- A/D converters for data acquisition by a PC

Particularly suitable for multi-gauging installations, these robust interfaces can be used directly for applications up to 4 probes or can be assembled on a DIN rail for larger applications with an easy integration.



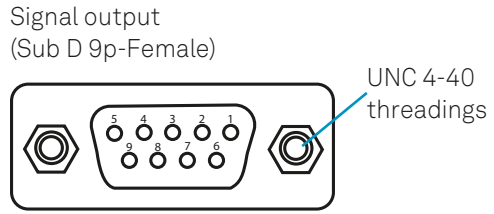
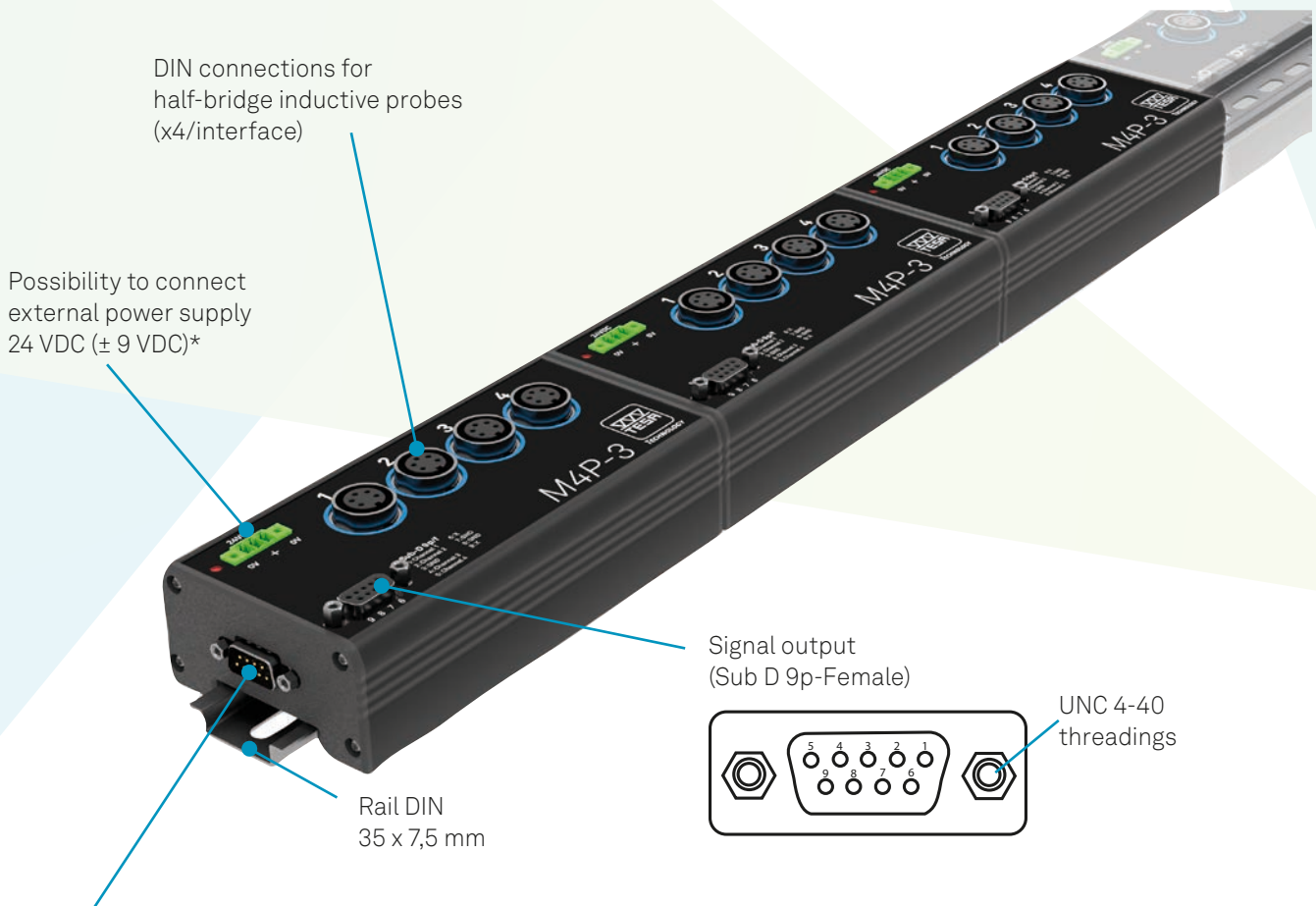
S48001720



Unique features :

- *Easy and fast integration on din rails*
- *Fast response time*
- *Robust metallic construction*
- *Compatible with large range of Tesa probes*

Description



Power supply
100-240 V / 50-60 Hz to 15 VDC
code S48001719
(to be ordered separately)*

PIN	Output
1	Output probe channel 1
2	Output probe channel 2
3	GROUND
4	Output probe channel 3
5	Output probe channel 4
6	Not connected
7	GROUND
8	GROUND
9	Not connected



Output type
IEC 60320 C14
Cables available (see page 4)

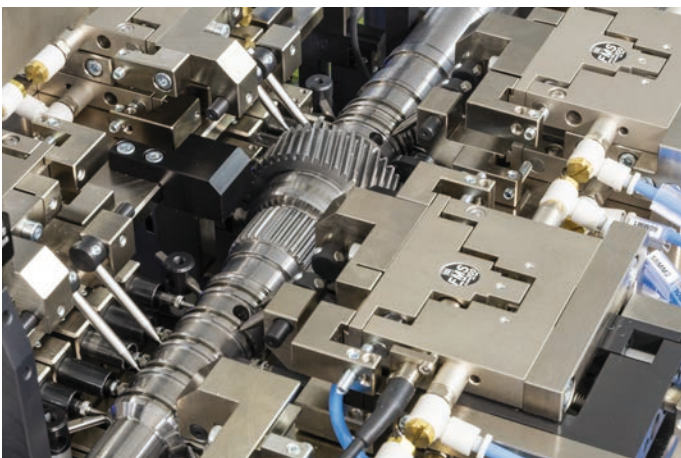
*Choose external power supply or power supply S48001719 (not both)
0,1 A needed for each interface

Analogue output

NOMINAL output signal for **100 µm stroke** from 0 with **gain = 1 V/mm** (adjustable to 2,5, 5 or 10 - see user manual)

Compatible probes part number	Designation	NOMINAL output signal	Compatible probes part number	Designation	NOMINAL output signal
03210904	GT 21 ± 1 mm	100 mV	03230063	GTL 222-A ± 1,5 mm	100 mV
03210934	GT 21 ± 1 mm Det	100 mV	03230163	GTL 222-A ± 1,5 mm Det	100 mV
03210924	GT 22 ± 1 mm	100 mV	03230053	GT 282 ± 2 mm	100 mV
03210944	GT 22 ± 1 mm Det	100 mV	03230153	GT 282 ± 2 mm Det	100 mV
03230057	GTL 21 ± 2 mm	100 mV	03230068	GT 272-A ± 2 mm	100 mV
03230072	GTL 211 ± 2 mm	100 mV	03230069	GT 282-A ± 2 mm	100 mV
03230056	GTL 22 ± 2 mm	100 mV	03230169	GT 282-A ± 2 mm Det	100 mV
03230027	GT 27 ± 2 mm	100 mV	03230062	GT 612 ± 5 mm	40 mV
03230127	GT 27 ± 2 mm Det	100 mV	03230055	GT 622 ± 5 mm	40 mV
03230073	GT 271 ± 2 mm	100 mV	03230155	GT 622 ± 5 mm Det	40 mV
03230026	GT 28 ± 2 mm	100 mV	03230070	GT 612-A ± 5 mm	40 mV
03230126	GT 28 ± 2 mm Det	100 mV	03230071	GT 622-A ± 5 mm	40 mV
03230041	GT 61 ± 5 mm	40 mV	03230171	GT 622-A ± 5 mm Det	40 mV
03230141	GT 61 ± 5 mm Det	40 mV	03230001	GT 41 ± 0,3 mm	100 mV
03230042	GT 62 ± 5 mm	40 mV	03230002	GT 42 ± 0,3 mm	100 mV
03230142	GT 62 ± 5 mm Det	40 mV	03230035	GT 43 ± 1 mm	100 mV
03230036	GT 21 HP ± 0,2 mm	100 mV	03230017	GT 44 ± 1 mm	100 mV
03230021	GT 22 HP ± 0,2 mm	100 mV	03230019	FMS 100 ± 2 mm	100 mV
03230060	GTL 212 ± 1,5 mm	100 mV	03230119	FMS 100 ± 2 mm Det	100 mV
03230054	GTL 222 ± 1,5 mm	100 mV	03230049	FMS 130 ± 2,9 mm	66,66 mV
03230154	GTL 222 ± 1,5 mm Det	100 mV	03230028	FMS 102 ± 2 mm	100 mV
03230067	GTL 212-A ± 1,5 mm	100 mV	03230128	FMS 102 ± 2 mm	100 mV
03230061	GT 272 ± 2 mm	100 mV	03230050	FMS 132 ± 2,9 mm	66,66 mV

Application examples :



Multigauge application with FMS probes



Measurement using a probe with pneumatic actuation

Specifications

- Power supply :
24 VDC \pm 9 VDC
- Power consumption per module :
0,1 A max.
- Working temperature :
0 °C \div 40 °C
- Storage temperature :
-20 °C \div 85 °C
- Probe connection type :
DIN connector (5 pin)
- Gain adjustment
presetting :
1 V/mm (in standard),
2,5, 5 or 10 V/mm
- Error :
 \pm 0,5 % of the
measuring range
- Weight :
400 g



Accessories for power supply S48001719



Part number	03160016	03160015	03160017
Mains cable type	EU	CH	Universal with flying leads

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About TESA

For more than 80 years, TESA has distinguished itself in the market through its excellent products, its unique expertise in micromechanics and precision machining as well as its proven experience in dimensional metrology. The TESA brand is the global market leader in the field of height gauges and a pioneer thanks to its wide range of instruments, including callipers, micrometers, dial gauges, lever-type dial test indicators and inductive probes. TESA is a true benchmark for the inspection of incoming goods, as well as for production workshops and quality assurance laboratories.

About Hexagon Manufacturing Intelligence

Hexagon Manufacturing Intelligence helps industrial manufacturers develop the disruptive technologies of today and the life-changing products of tomorrow. As a leading metrology and manufacturing solution specialist, our expertise in sensing, thinking and acting – the collection, analysis and active use of measurement data – gives our customers the confidence to increase production speed and accelerate productivity while enhancing product quality.