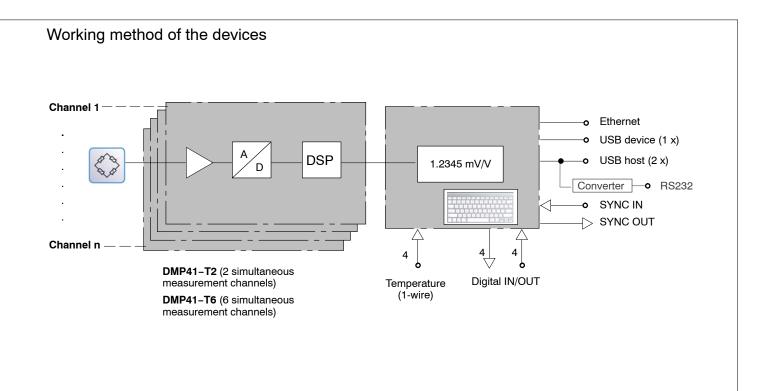




Digital precision measuring devices

Special features

- Accuracy class 0.0005
- Simultaneous measurement with optional 2 or 6 channels
- Resolution of measured signals up to the physical limit
 > 1.000.000 d
- Individual linearization
- Powerful digital filters
- Background calibration
- Operation via touchscreen, keyboard or computer
- Improved temperature and EMC behavior
- LAN/USB as required





B3479-2.0 en

Specifications

Туре		DMP41-T2	DMP41-T6
Accuracy class		0.0005 ¹⁾	
Number of amplifiers		2	6
Transducers that can be connected		2 SG full bridges	6 SG full bridges
Excitation voltage (-) U _b	V	2.5;	5; 10
Carrier frequency	Hz	225 ±100ppm	
Transducer resistance per amplifier			
at U _b = 2.5V	Ω	75	4,000
at 5V	Ω	150 4,000	
at U _b = 10V	Ω	300	. 4,000
Length of transducer cable	m	< 200	
Measuring ranges	mV/V	±2.5; ±5, ±10	
Digital filter (6th order)	Hz		(15 steps)
Display resolution	digit		00,000
Common-mode rejection	dB		120
Input resistance	MΩ		100
Sampling rate, per amplifier	1/s	1	450
Taring range/Zeroing range		Total disp	olay range
Linearization of transducer characteristic curve		211	points
Non-linearity			
rel. to full scale value	%	< 0.0	0005
Temperature effect per 10 K in nominal (rated) temperature range			
on zero point (rel. to full scale value)	%		0002
on sensitivity (rel. to actual value)	%	< 0.0	0005
Short-term drift over 5 min, from 2 h after switch-on	ppm		2, typ. ±1
Long-term drift over 24 h, from 2 h after switch-on	ppm	max. ±5	i, typ. ±2
Nominal (rated) temperature range	°C	10+40	
Operating temperature range	°C	10+50	
Storage temperature range	°C	-10+60	
Operating voltage (mains voltage)	V	85 264 ((5060 Hz)
Power consumption	W	approx. 35	approx. 45
Weight, (net weight)	kg	approx. 9	approx. 9,5
Dimensions (W x H x D)	mm	458 x 1	71 x 367
Connections for			
SD transducer in six-wire configuration		2 x D-SUB-15 2 x Amphenol	6 x D-SUB-15 6 x Amphenol
Temperature sensor (1-wire), max. 4 sensors		BJ	I45
Digital inputs and outputs		D-SUB-15	
Computer interface Ethernet		RJ45	
Computer interface USB		USB device	
USB host interface		2 x USB Host	
Computer interface serial (optional)		Adapter D-SUB-9	
Range of use		Indoor	
Altitude, max.	m	2000	
Protection class		I	
Overvoltage category		П	
Permitted degree of contamination		2	
Rel. air humidity, max.		80 % at 31 oC, decreasing linearly to 50% at 40°	
Degree of protection		IP 20 per DI	N EN 60529

¹⁾ With supply voltage 10V; Measuring range 2.5 mV/V; Transducer resistance 350 Ω ; Cable length <10m

Specifications (continued)

Scope of delivery

Article	Order No.
Network cable (Ethernet cable CAT5+), 1 piece	1-KAB239-2
Network cable IEC 320 C13, 1 piece Please enter the land in which the cable is to be used in the order (various versions: DE/CH/GB/IT/USA)	1-KAB274
Synchronization cable for synchronization between 2 DMP41 devices (can be used for both DMP41–T2 and DMP41–T6)	1-KAB261-2
Operating manuals, 2 copies	-
1 pc USB cable, 2.0 (DMP41 – PC-connection)	3–3301.0127
Synchronization cable for synchronization between a DMP40 (can be used for both DMP40 and DMP40–S2) and DMP41 devices (can be used for both DMP41–T2 and DMP41–T6)	1-KAB298-0.5
Synchronization cable for synchronization between a DMP41 device and a MGCplus device	1-KAB299-1
USB-RS232 adapter (from the new USB interface of the DMP41 to the RS232 interface previously present on the DMP40)	1-KAB297
Cable RS232	1-KAB2114-3

Accessories (not included among the items supplied)

	Order No.
Temperature sensor (1-wire); with open ends; 1 sensor per temperature channel	available from www.wiregate.de
RJ45 connector for tool-free fitting	1-RJ45-EMV

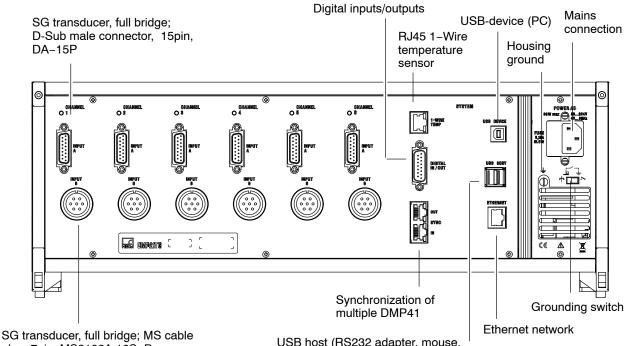
Application areas

- Calibration measurements within scope of quality management for compliance with DIN-ISO 9000, particularly for comparison measurements of comparison standards / test piece.
- Measurements under adverse conditions, extreme interference signal suppression.
- Precision measurement with SG transducers.

Specifications (continued)

Housing rears

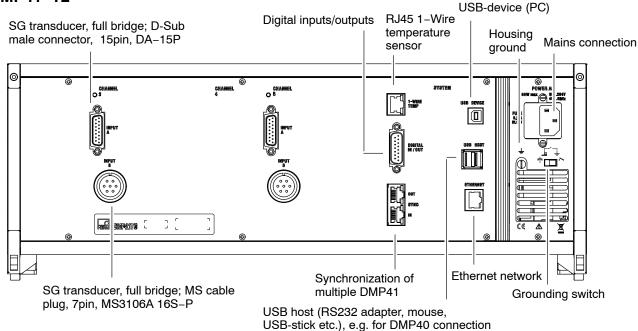
DMP41-T6



plug, 7pin, MS3106A 16S-P

USB host (RS232 adapter, mouse, USB-stick etc.), e.g. for DMP40 connection

DMP41-T2



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measure and predict with confidence