ETH messtechnik

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Datasheet

Digital Panel Meter

PU5

for active torque transducer
(external power supply for torque sensors required!)

- red display of -9999...99999 digits
- installation depth: 120 mm
  without plug-in screw terminal
- digit height 14 mm
- 24 bit transducer resolution
- with up to 50 measurements
- display adjustment via factory settings or directly via sensor signal
- min/max-memory with adjustable permanent display
- 30 additional adjustable supporting points
- display flashing at threshold value exceedance/undercut
- zero-key for the triggering of Hold, Tara
- flexible alarm system with adjustable delay times
- galv. isolated digital input for the triggering of Hold, Tara
- programming interlock via access code
- protection class IP65 at the front
- plug-in screw terminal
- optional: 2 or 4 relay outputs
- optional: independently scalable analog output
- optional: interface RS232 or RS485
- accessories: PC-based configuration software PM-TOOL incl. CD & USB-adapter

Ordering Code

PU 5 . 3 x . 1 D S286

Number of digits
5-digit → 5

Interface
none → 0
RS232 (galvanic isolated) → 3
RS485 (galvanic isolated) → 4

Supply for components
24 V / 50 mA
Not suitable for torque transducers; is required for additional electronics → 3

Outputs
none → 0
0-10V DC / 2 mA → 1
0-20 mA / Bürde 500 Ω → 2
4-20 mA / Bürde 500 Ω → 3

Measuring input
Multi-function input
Pt100, Current, platinum thermometer, shunt, thermocouple, voltage → X

Size
96 mm wide / 48 mm hight → 1

Supply voltage
100-240 VAC → S
10-40 DC → W

Mechanical options
IP65, plastic foil keyboard
screw clamp (standard) → 1
plug clamp → 7

Switching points
no switching point → 0
2 relay outputs → 2
4 relay outputs → 4

internal index → D

Software
Special version → S286

Mechanical Dimensions

Casing (B x H x T)	96 x 48 x 142
Panel recess (B x H)	$92{,}0\ ^{+0{,}8}$ x $45{,}0\ ^{+0{,}6}$

Technical Specifications

Protection	
Front:	IP 65
Connection:	IP 00
Connection	
Rear:	via plug-in-terminals up to 2,5mm²
Measuring input	
DC voltage:	0 to ± 10 V
Input resistance:	Ri= ~ 150 kΩ
Accuracy	
Measuring fault:	± 0,01 % of full scale, ± 1 Digit
Temp. drift:	~ 50 ppm/K
Output (Option)	
Relay output:	230 V AC / 5 A - 30 V DC / 2 A Separation appropriate to DIN EN 50178 Specification appropriate to DIN EN 60255 **function selectable**
Analogue output:	0 - 10 V DC 0 - 20 mA burden max. 500Ω 4 - 20 mA burden max. 500Ω
Indication	
Display:	LED with 7 segments, 14mm high 5 digits = display -19999 bis 99999 Digit
Overflow:	transversal bars at the head
Underflow:	transversal bars at the bottom
Displaytime:	0,1 to 10 seconds
Interface: (Option)	RS 232 9600 Baud, no parity, 8 databit, no stop bit
Environmental conditions	
Operating temperature:	0 to +50 °C
Storing temperature:	-20 to +80 °C
Power supply	
Voltage:	100 - 240 VAC ± 10 % (50 - 60 Hz) 10 - 40 VDC ± 10 %, galvanically separated
Power:	max. 15 VA

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