

Display and control unit DTX-P



The Bühler control and display unit DTX-P features a rugged plastic housing and a protection class of IP 65 on the panel side making it an excellent solution for industrial applications.

The 4-20 mA analogue input combines it with our level- and temperature controls like Nivotemp, Nivovent and Thermolog as well as with our Fluidcontrol terminals.

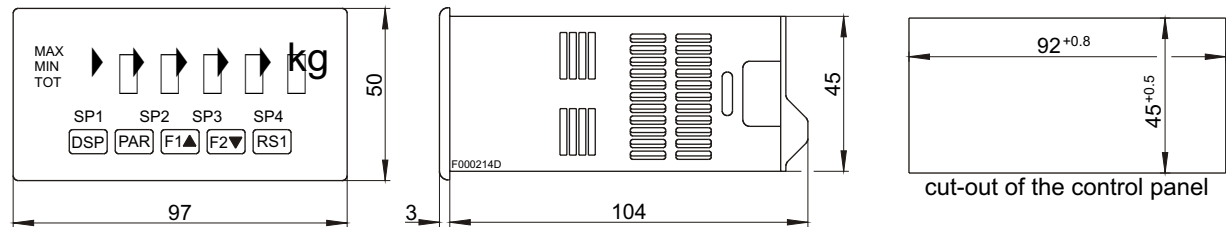
The unit can be adapted to the individual application by inserting special pc boards. These pc boards can be exchanged any time later on if required.

Standard variations for the DTX-P are:
Analogue output 4-20 mA, two change over relays, four NO relays and either four NPN or PNP outputs. An interface PC board for remote programming is also available.

- 5-digit, 14mm LED display back ground illuminated
- Input signals 0-20 mA, 4-20 mA or 0-10v DC optional
- Optional pc boards. Up to four switch points, 0/4-20 mA or 0-10 V analogue outputs, RS 232 interface
- Easy to programme either on site or remotely
- Signal linearisation programmable in 16 steps
- Display front IP 65

technical data

dimensions



housing: dark red, shock-proof plastic housing. Fixing by mounting frame with terminal screw.

display: five-digit display with 14 mm high red LED

signal: The following standard signals are possible. The range will adjusted in the programming.
The accuracy in the following range table is stated in percent of indication value.
The protection complies the max. permissible input signal.

range	accuracy	Impedance/	protection	resolution
20 mA	0,03%-0,12%	20 Ω	150 mA	1 µA
10 VDC	0,03%-0,12%	500 kΩ	300 V	1 mV

user-inputs: 3 programmable inputs are occure. They are adjustable by bridges PNP- or NPN-switching.
Protection max. 30 V.
NPN: active V < 0,7 VDC; inactive V > 2,5 VDC
PNP: active V < 2,5 VDC; inactive V > 0,7 VDC

power supply: DTX-P-230 :85 to 250 VAC 50/60 Hz, 15 VA
DTX-P-24 :11 to 36 VDC, 11 W or 24 VAC ± 10%, 15 VA

sensor supply: 24 VDC, ± 5%, regulated, max. 50 mA
connection: stronghold terminal strip
relative humidity: max. 85%. rF, not condensable
ambient operation: 0...+50°C; with 3 cards
temperature: unequipped: 0...45°C; storage: -40...+60°C
weight: 300 g (without plug-in cards)

Specification plug-in cards

analogue output card: DTX-K-AO	output accuracy load	: 0-20 mA or 4-20 mA or 0-10 VDC : 0,17 % to 0,4% : 0-10 VDC: min 10 kΩ , 0/4-20 mA: max. 500 Ω
relay output card: 2x change over DTX-K-2W	type contact load lifespan	: 2 relays with change over contact : 5 A, 120/240 VAC or 28 VDC. total current at 2 aktive relays ≤ 5 A : minimum 100000 switch cycle at max. load
relay output card: 4x NO (normally open) DTX-K-4S	type contact load lifespa	: 4 relays with NO (normally open) contact : 3 A, 120/240 VAC or 28 VDC. total current at 2 aktive relays ≤ 4 A : minimum 100000 switch cycle at max. load
transistor output card: DTX-K-4N	type nominal data	: 4 NPN-open-collector transistors : max. 100 mA at V _{SAT} = max. 0,7 V. V _{max} = 30 V
transistor output card: DTX-K-4P	type nominal data	: 4 PNP-open-collector transistors : Intra supply voltage: 24 VDC ±10 %, total load for all 4 outputs: max. 30 mA. external supply: max. 30 VDC, load output: max. 100 mA.

order information

description	type	part-no.
Digital indicator (flush-type); 85 to 250 VAC 50/60 H	DTX-P-230	1450099
Digital indicator (flush-type); 11 to 36 VDC, 11 W or 24 VAC 50/60 Hz	DTX-P-24	1450199
accessories		
plug-in interface card RS 232	DTX-K-SER	14500991
plug-in analoge output card	DTX-K-AO	14500992
plug-in relay output card 2x change over	DTX-K-2W	14500993
plug-in relay output card 4x NO (normally open)	DTX-K-4S	14500994
plug-in transistor output card 4xNPN open-collector transistors	DTX-K-4N	14500995
plug-in transistor output card 4xPNP open-collector transistors	DTX-K-4P	14500996
programmable software for windows	DTX-S-PC	14500997