



DATCON

INDUSTRIAL MEASUREMENT

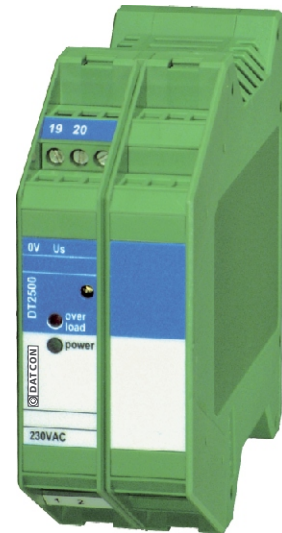
DT2500 ...



Intrinsically safe output power supplies

Product features:

- Any output voltages between 6–24 VDC
- 6 / 8 / 10 / 12 / 15 / 18 / 24 VDC nominal output voltage
- Overload-protection, overload indication
- Overvoltage-protection
- 230 VAC power supply
- TS-35 rail mounting, 35 mm width
- 11 different types



DT2500

		MAXIMUM OUTPUT CURRENT [mA]										
		240	190	150	120	70	60	50	40	25		
OUTPUT VOLTAGE	06	5,8–6,2 V	●									
	08	5,9–8,3 V	●									
	10	7,7–10,3 V		●								
	12	9,7–12,3 V			●			●				
	15	11,7–15,3 V				●			●			
	18	14,5–18,5 V					●			●		
	24	17,5–24,5 V							●		●	
	NOMINAL VALUE [V]	ADJUSTABLE RANGE										

The safety data depending on the output voltage / current see next page.

The **DT2500 ...Intrinsically safe output power supplies** power for devices that operate in potentially explosive areas Zone 1 category. Subject to the units' safety data, the power supply units are designated with the following markings: II (2) G [EEx ib] IIC, or II (2) G [EEx ib] IIB.

A potentiometer on the front panel can be used to adjust the output voltage.

The output is protected against overcurrent; an indicator shows when overloading occurs.

The power supply units adapt flexibly to the users' needs (IIC, IIB gas mixture, and the Ci, Li parameters of the powered devices).

Technical specifications

Safety data:

The output is galvanically isolated from the AC mains, and the isolation is in compliance with the standard EN 61010-1

Pollution level: 2
 Overvoltage group: II
 Overcurrent protection in installation: 6 A

Intrinsic safety data:

Certification: BKI 04 ATEX 097 X
 Protection marking: II (2) G [EEx ib] IIC/IIB (0 °C < Ta < 50 °C)

Safety data:

Type	Uo [V]	Io [mA]	Po [mW]	IIC		IIB	
				Co [nF]	Lo [mH]	Co [nF]	Lo [mH]
DT2500 06 240	7,7	273	2102	300	0,15	1000	0,5
DT2500 08 240	11,2	273	3058	250	0,15	750	0,5
DT2500 10 190	12,4	224	2778	200	0,2	500	0,5
DT2500 12 150	15,1	178	2688	150	0,3	400	1,0
DT2500 12 060	15,1	80	1208	150	1,0	400	3,0
DT2500 15 120	18,8	145	2726	100	0,34	300	1,0
DT2500 15 050	18,8	70	1316	100	1,0	300	3,0
DT2500 18 070	22,4	91	2038	50	1,0	150	3,0
DT2500 18 040	22,4	58	1299	50	2,5	150	5,0
DT2500 24 050	30,0	70	2100	30	2,0	100	5,0
DT2500 24 025	30,0	42	1260	30	5,0	100	5,0

Output parameters:

Output voltage: see the table on the previous page
 Output current: see the table on the previous page
 Overvoltage protection (Uo): see the safety data
 Overcurrent protection (Io): limiter, overload display
 Temperature-coefficient: 250 ppm / °C (max.)
 Supply-voltage effect: 0,25 % (max., in the whole supply voltage range)
 Load-effect: 0,25 % (max., in the whole supply voltage range)
 Noise voltage: 10 mV+0,002 x U (max., where U is the output voltage)

Power supply:

Supply voltage: 230 VAC, 50/60 Hz
 Consumption: 9 VA

Ambient conditions:

Operating temperature range: 0–50 °C
 Relative humidity: 90 % (max., non-condensing)
 Place of installation: safety area

Elektromagnetic compatibility (EMC):

in accordance with the standard EN 61326:2000

Immunity: -A- criterion
 Noise emission: -A- class

Data in general:

Housing: terminal assembly box, rail mounting on a TS-35 rail,
 material: polyamide PA6.6
 Connection: screw-fixed type connection
 Cross-section of the connected cable: 2,5 mm² (max.)
 Dimensions: 35 x 99 x 115 mm (width x height x depth)
 Weight: 0,35 kg
 Protection: IP 20

The Manufacturer maintains the right to change the technical data.

