

DATA SHEET

TU844

Compact Product Suite hardware selector



The TU844 MTU can have up to 8 I/O channels and 2+2 process voltage connections. Each channel has two I/O connections and one ZP connection. Input signals are connected via individual shunt sticks, TY801. The shunt stick is used to choose between voltage and current input. The maximum rated voltage is 50 V and maximum rated current is 2 A per channel.

The MTU distributes the two ModuleBuses, one to each I/O module and to the next MTU. It also generates the correct address to the I/O modules by shifting the outgoing position signals to the next MTU.

The MTU can be mounted on a standard DIN rail. It has a mechanical latch that locks the MTU to the DIN rail. Four mechanical keys, two for each I/O module, are used to configure the MTU for different types of I/O modules. This is only a mechanical configuration and it does not affect the functionality of the MTU or the I/O module. Each key has six positions, which gives a total number of 36 different configurations.

Features and benefits

- Complete installation of I/O modules using 2-wire connections and field power distribution.
- Up to 8 channels of field signals and process power connections.
- Connections to two ModuleBuses and I/O modules.
- Mechanical keying prevents insertion of the wrong I/O module.
- Latching device to DIN rail for grounding.
- DIN rail mounting.

General info	
Article number	3BSE021445R1
Туре	Redundant
Connection	Terminal block
Channels	8
Voltage	50 V
Mounting	Horizontal
Mounting detail	55 º (131 °F)
Use with I/O	AI845, AI880, AI880A and DP840
Process connections	40 up to 8 I/O channels (2 terminals per channel) 4 Process power 20 Process power (0 V)
Single/redundant I/O	Redundant

Detailed data		
Maximum current per I/O channel	2 A	
Maximum current process connection	5 A	
Acceptable wire sizes	Solid: 0.2 - 4 mm ² Stranded: 0.2 - 2.5 mm ² , 24 - 12 AWG Recommended torque: 0.5 - 0.6 Nm Stripping length: 7 mm	
Dielectric test voltage	500 V a.c.	

Environment and certification		
CE mark	Yes	
Electrical safety	EN 61010-1, UL 61010-1, EN 61010-2-201, UL 61010-2-201	
Hazardous Location	C1 Div 2 cULus, C1 Zone 2 cULus, ATEX Zone 2	
Marine certification	ABS, BV, DNV-GL, LR	
Temperature, Operating	0 to +55 °C (+32 to +131 °F), approvals are issued for +5 to +55 °C	
Temperature, Storage	-40 to +70 °C (-40 to +158 °F)	
Pollution degree	Degree 2, IEC 60664-1	
Corrosion protection	ISA-S71.04: G3	
Relative humidity	5 to 95 %, non-condensing	
Max ambient temperature	55 °C (131 °F)	
Protection class	IP20 according to IEC 60529	
Mechanical operating conditions	IEC/EN 61131-2	
EMC	EN 61000-6-4, EN 61000-6-2	
Overvoltage categories	IEC/EN 60664-1, EN 50178	
Equipment class	Class I according to IEC 61140; (earth protected)	
RoHS compliance	EN 50581:2012	
WEEE compliance	DIRECTIVE/2012/19/EU	

Dimensions		
Width	131 mm (5.16") including connector, 124 mm (4.88") edge to edge installed	
Depth	64 mm (2.52") including terminals	
Height	186.5 mm (7.34") including locking device	
Weight	0.6 kg (1.3 lbs.)	



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