



8170B01

TX-I/O™

TX-I/O Assortment overview

TX..1...

Modules and functions

The following functions are available in the TX-IO range:

Signal type	Description	Number of I/O points per function	Max. number of functions per module									
			TXM1.8D	TXM1.16D	TXM1.8U	TXM1.8U-ML	TXM1.8X	TXM1.8X-ML	TXM1.8P	TXM1.6R	TXM1.6R-M	TXM1.6RL
Digital inputs												
D20	Status indication, volt-free maintained contact, N/O contact (N/C contact)	1	8	16	8	8	8	8				
D20R	Status indication, volt-free maintained contact, N/C contact	1	8	16	8	8	8	8				
D20S	Status indication, volt-free pulsed contact, N/O											
C	Count, volt-free pulse contact, mechanical or electronic, normally open, max. 10 Hz, with debouncing max. 25 Hz, with debouncing Electronic contact max. 100 Hz	1	8	8								
		1			8	8	8	8				
		1			8	8	8	8				
Analog inputs												
Pt100 4	Temperature Pt100 Ω (4-wire)	1								8		
P100 (4-wire)	Resistance 250 Ω (Pt 100)	1								8		
R250 (2-wire)	Resistance 250 Ω	1								8		
Pt1K 375	Temperature Pt 1000	1			8	8	8	8	8			
Pt1K 385	Temperature Pt 1000	1			8	8	8	8	8			
Ni1K	Temperature LG-Ni 1000	1			8	8	8	8	8			
R2K5	Resistance 2500 Ω	1			8	8	8	8	8			
R1K	Temperature LG-Ni 1000	1			8	8	8	8	8			
P1K	Resistance 2500 Ω (Pt 1000)	1			8	8	8	8	8			
NTC10 K	Temperature NTC 10 K	1			8	8	8	8				
NTC100 K	Temperature NTC 100 K	1			8	8	8	8				
T1	Temperature T1 (PTC)	1			8	8	8	8				
U10	Voltage DC 0 ... 10V	1			8	8	8	8				
I420	Current DC 4 ... 20 mA	1					8	8				
I25	Current DC 0...20 mA (for 25 mA see CM10563)	1					8	8				
Digital outputs												
Q250	Maintained contact, changeover switch	1									6	6
Q250L	Maintained contact, single-pole, bistable	1										6
Q250A-P / Q250-P	On/off pulse (N/O and N/C contact)	2									3	3
Q-M3	Maintained contact, three-stage	3									2	2
Q-M1...M4	Maintained contact, 1...4-stage	1...4									6...1	6...1
Q250-P3	Pulse, three-stage	4									1	1
Q250-P1...P5	Pulse, 1...5-stage	2...6									3...1	3...1
Y250T	Pulse, control signal, three-position output, internal stroke algorithm	2									3	3
Analog outputs												
Y10S	Proportional control signal DC 0...10 V	1			8	8	8	8				
Y420	Proportional control signal DC 4...20 mA	1					4	4				
Indication and local override												
	Local override				X		X				X	
	LCD display				X		X					
	Green I/O status LEDs		X	X	X	X	X	X	X	X		X
	3-color I/O status LEDs (if supported by signal type)	X									X	

Example of a read operation The Y250T function (control signal, three-position output) uses 2 I/O points.
One TXM1.6R relay module can accommodate 3 actuators.

Type summary, documentation

	Type (ASN No.)	Description	Document
I/O modules	TXM1.8D	Digital input module, 8 I/O points	CM2N8172
	TXM1.16D	Digital input module, 16 I/O points	CM2N8172
	TXM1.8U	Universal module	CM2N8173
	TXM1.8U-ML	Universal module with local override facility and LCD	CM2N8173
	TXM1.8X	Super universal module	CM2N8174
	TXM1.8X-ML	Super universal module with local override facility and LCD	CM2N8174
	TXM1.8P	Resistance measuring module	CM2N8176
	TXM1.6R	Relay module	CM2N8175
	TXM1.6R-M	Relay module with local override facility	CM2N8175
	TXM1.6RL	Relay module bistable	CM2N8177
I/O OPEN	TXI1.OPEN	TX OPEN RS232/485 module	CM2N8185
Power supply	TXS1.12F10	Power supply module 1.2 A, fuse 10A	CM2N8183
	TXS1.EF10	Bus connection module, fuse 10A	CM2N8183
Bus interface	TXB1.PBUS	P-Bus Interface module with power supply 1.2A, fuse 10A	CM2N8180
	TXB1.PROFIBUS	Profinet BIM	CM2N8186
Island bus expansion	TXA1.IBE	Island bus expansion module <i>(Compatibility see CM110562)</i>	CM2N8184
Address keys	TXA1.K12	Address keys 1 ... 12 + reset key	CM110562
	TXA1.K24	Address keys 1 ... 24 + 2 reset keys	
	TXA1.K-48	Address keys 25 ... 48 + 2 reset keys	
	TXA1.K-72	Address keys 49 ... 72 + 2 reset keys	
	TXA1.K-96	Address keys 73 ... 96 + 2 reset keys	
	TXA1.K-120	Address keys 97 ... 120 + 2 reset keys	
	TXA1.5K120	Address keys 5, 10, 15 ... 120 + 2 reset keys	
Address labels	TXA1.LA4	Address label sheets A4 (100 pcs. per box)	CM110562
	TXA1.LLT	Address label sheets Letter (100 pcs. per box)	CM110562
	TXA1.LH	Spare transparent label holders (10 pcs. per box) (for modules manufactured before fall 2010)	
	TXA1.LH2	Spare transparent label holders (10 pcs. per box) (for modules manufactured from fall 2010)	CM110562
Engineering		TX-I/O™ Functions and operation	CM110561
		TX-I/O™ Planning and installation manual (including an overview of the supported functions in different building automation and control systems)	CM110562
		Replacement of legacy I/O modules	CM110563
Dimensions L x W x H		I/O modules	64 x 98 x 70 mm
		Power supply module,	96 x 98 x 70 mm
		I/O OPEN module	
		Bus connection module,	32 x 98 x 70 mm
		Island bus expansion module	
	Bus Interface modules	128 x 98 x 70 mm	

