

TX HMI/PLC系列
插件模块
20 DI , 12 DO 0.5 A , 4 AI (U、I、RT、TC) , 4 AO (U、I)
TX-IO-XX03



- 插入式扩展模块，搭配TX700和TX800产品系列的HMI使用
- I/O模块
- 20通道数字量输入，24VDC，PNP
- 12通道数字量输出，24VDC，0.5 A，PNP
- 4通道模拟输入，U、I、RTD、TC
- 4通道模拟输出，U，I

型号	TX-IO-XX03
货号	6828201
系统数据	
供电电源	24 VDC
允许范围	12...30 VDC
系统供电	来自 HMI
连接供电电压	含笼式弹簧夹端子的可插拔端子排
电气隔离	光学，1500 V _{rms}
数字量输入	
通道数	20
Connectivity inputs	3个可插拔弹簧夹端子板 10针，3.5 mm型 (Weidmueller — Omnimate BLZF 3.5/180F)
输入类型	PNP
低电平信号电压	< 6 V
高电平信号电压	> 12 V
低电平信号电流	< 1 mA
高电平信号电流	> 3 mA
输入延迟	0.05 (S 输入端)，0.0002 (E 输入端) ms
传感器供电	24 VDC
电气隔离	1500 V _{rms}
模拟量输出	
通道数	4
工作模式	电流，电压，电阻，热电偶
分辨率	12 位
25 °C条件下的基本误差	0.1 %

Operating mode voltage	
最大输入电压	15 V
输入信号类型	4路差分 (或者8个AI单端 , 仅在电压模式下)
测量范围	+/-100 mV, +/-500 mV, +/-1 V, +/-5 V, +/-10 V, 0 ... 1 V, 0 ... 10 V
Linearity	0.1 %
Basic error at 25 °C	0.1 %
Repeat accuracy	< 0.2 %

工作模式电流	
Max. Eingangsspannung	15 V
最大输入电流	20 mA
负载	200 Ω
输入信号类型	4 路差分输入 , 外部供电
测量范围	0...20 mA , 4...20 mA
Linearity	0.1 %
Basic error at 25 °C	0.1 %

工作模式 RTD / 阻抗	
温度单位	°摄氏度, °华氏度
测量范围	-100...850 °C
接插件型号	2、3、4 接线
measurement current	1.2 mA
Repeat accuracy	< 0.1 %

工作模式 热电偶	
温度单位	μV
测量范围	E (-270...1000 °C), J (-210...760 °C), K (-270...1370 °C), R (0...1768 °C), S (0...1768 °C), T (-270...400 °C)
冷端补偿	通过 Pt100 补偿输入端 (CN4 针脚 1-5) 实现外部供电
Basic error at 25 °C	0.1 %

数字量输出	
通道数	12
Connectivity outputs	2个可插拔弹簧夹端子板 10针 , 3.5 mm型 (Weidmueller — Omnimate BLZF 3.5/180F)
输出类型	PNP
输出电压	24 VDC
通道输出电流	0.5 A
同步因数	0.23
继电器输出	0.15 ms
短路保护	是
执行器供电	24 VDC 外部供电
电气隔离	1500 V _{ins}

模拟量输出	
通道数	4
工作模式	+/-100 mV, +/-500 mV, +/-1 V, +/-5 V, +/-10 V, 0 ... 1 V, 0 ... 10 V +/-2 mA, +/-10 mA, +/-20 mA
分辨率	12 字节

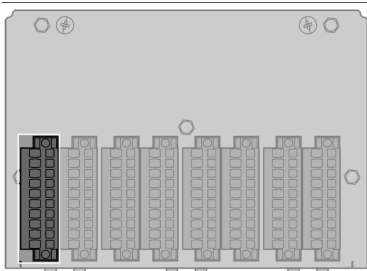
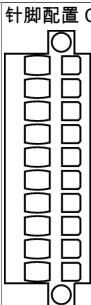
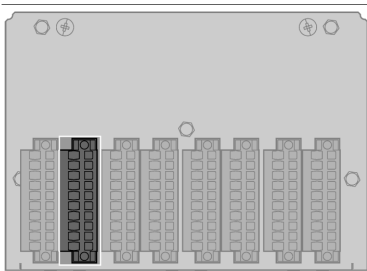
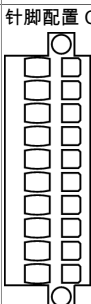
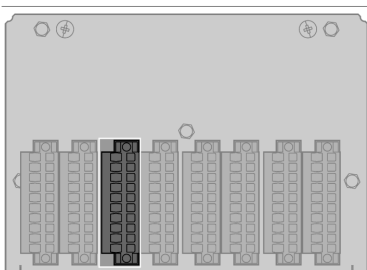
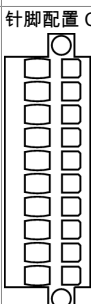
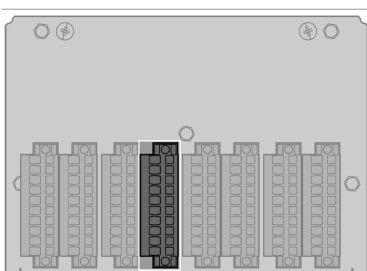
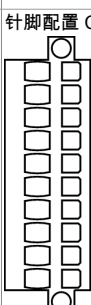
Operating mode voltage	
Load resistor	> 1 kΩ
Output signal type	单端
Output signal range	+/-10 V
Linearity	0.15 %

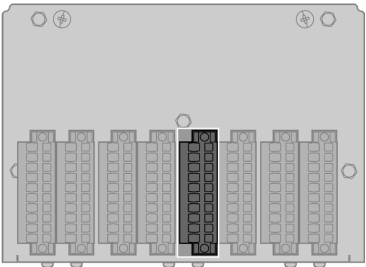
Operating mode current	
负载电阻	< 470 Ω
Output signal type	激活
输出信号范围	0...20 mA
Linearity	0.2 %

标准 / 指令合规性	
认证和证书	CE, cULus, Class 1, Div. 2, DNV-GL

系统数据	
尺寸 (长/宽/高)	125.2 x 89.3 x 33.7 mm
工作温度	0...+50 °C
防护等级	IP20
外壳材料	金属
外壳颜色	银
安装	位于TX500和TX700系列的HMI上

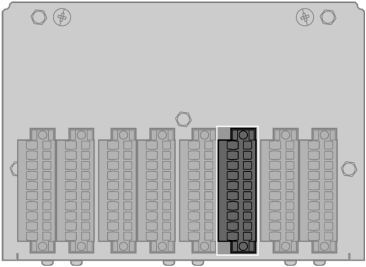
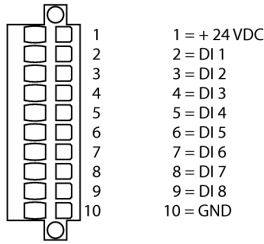
Connection and pin assignment

	模拟量输出	针脚配置 CN1  <table><tr><td>1</td><td>1 = Pt100_1 Vers.</td></tr><tr><td>2</td><td>2 = CH_1 + Input</td></tr><tr><td>3</td><td>3 = CH_1 - Input</td></tr><tr><td>4</td><td>4 = COM-AGND</td></tr><tr><td>5</td><td>5 = Shield (housing)</td></tr><tr><td>6</td><td>6 = Pt100_2 Vers.</td></tr><tr><td>7</td><td>7 = CH_2 + Input</td></tr><tr><td>8</td><td>8 = CH_2 - Input</td></tr><tr><td>9</td><td>9 = COM-AGND</td></tr><tr><td>10</td><td>10 = Shield (housing)</td></tr></table>	1	1 = Pt100_1 Vers.	2	2 = CH_1 + Input	3	3 = CH_1 - Input	4	4 = COM-AGND	5	5 = Shield (housing)	6	6 = Pt100_2 Vers.	7	7 = CH_2 + Input	8	8 = CH_2 - Input	9	9 = COM-AGND	10	10 = Shield (housing)
1	1 = Pt100_1 Vers.																					
2	2 = CH_1 + Input																					
3	3 = CH_1 - Input																					
4	4 = COM-AGND																					
5	5 = Shield (housing)																					
6	6 = Pt100_2 Vers.																					
7	7 = CH_2 + Input																					
8	8 = CH_2 - Input																					
9	9 = COM-AGND																					
10	10 = Shield (housing)																					
	模拟量输出	针脚配置 CN2  <table><tr><td>1</td><td>1 = Pt100_3 Vers.</td></tr><tr><td>2</td><td>2 = CH_3 + Input</td></tr><tr><td>3</td><td>3 = CH_3 - Input</td></tr><tr><td>4</td><td>4 = COM-AGND</td></tr><tr><td>5</td><td>5 = Shield (housing)</td></tr><tr><td>6</td><td>6 = Pt100_4 Vers.</td></tr><tr><td>7</td><td>7 = CH_4 + Input</td></tr><tr><td>8</td><td>8 = CH_4 - Input</td></tr><tr><td>9</td><td>9 = COM-AGND</td></tr><tr><td>10</td><td>10 = Shield (housing)</td></tr></table>	1	1 = Pt100_3 Vers.	2	2 = CH_3 + Input	3	3 = CH_3 - Input	4	4 = COM-AGND	5	5 = Shield (housing)	6	6 = Pt100_4 Vers.	7	7 = CH_4 + Input	8	8 = CH_4 - Input	9	9 = COM-AGND	10	10 = Shield (housing)
1	1 = Pt100_3 Vers.																					
2	2 = CH_3 + Input																					
3	3 = CH_3 - Input																					
4	4 = COM-AGND																					
5	5 = Shield (housing)																					
6	6 = Pt100_4 Vers.																					
7	7 = CH_4 + Input																					
8	8 = CH_4 - Input																					
9	9 = COM-AGND																					
10	10 = Shield (housing)																					
	模拟量输出	针脚配置 CN3  <table><tr><td>1</td><td>1 = CH1</td></tr><tr><td>2</td><td>2 = COM-AGND</td></tr><tr><td>3</td><td>3 = CH2</td></tr><tr><td>4</td><td>4 = COM-AGND</td></tr><tr><td>5</td><td>5 = Shield (housing)</td></tr><tr><td>6</td><td>6 = CH3</td></tr><tr><td>7</td><td>7 = COM-AGND</td></tr><tr><td>8</td><td>8 = CH4</td></tr><tr><td>9</td><td>9 = COM-AGND</td></tr><tr><td>10</td><td>10 = Shield (housing)</td></tr></table>	1	1 = CH1	2	2 = COM-AGND	3	3 = CH2	4	4 = COM-AGND	5	5 = Shield (housing)	6	6 = CH3	7	7 = COM-AGND	8	8 = CH4	9	9 = COM-AGND	10	10 = Shield (housing)
1	1 = CH1																					
2	2 = COM-AGND																					
3	3 = CH2																					
4	4 = COM-AGND																					
5	5 = Shield (housing)																					
6	6 = CH3																					
7	7 = COM-AGND																					
8	8 = CH4																					
9	9 = COM-AGND																					
10	10 = Shield (housing)																					
	冷端温度补偿 (Pt100) 和电源数字量 I/O	针脚配置 CN4  <table><tr><td>1</td><td>1 = Pt100_5 Vers.</td></tr><tr><td>2</td><td>2 = CH_5 + Input</td></tr><tr><td>3</td><td>3 = CH_5 - Input</td></tr><tr><td>4</td><td>4 = COM-AGND</td></tr><tr><td>5</td><td>5 = Shield (housing)</td></tr><tr><td>6</td><td>6 = n.c.</td></tr><tr><td>7</td><td>7 = + 24 VDC in</td></tr><tr><td>8</td><td>8 = + 24 VDC in</td></tr><tr><td>9</td><td>9 = GND in</td></tr><tr><td>10</td><td>10 = GND in</td></tr></table>	1	1 = Pt100_5 Vers.	2	2 = CH_5 + Input	3	3 = CH_5 - Input	4	4 = COM-AGND	5	5 = Shield (housing)	6	6 = n.c.	7	7 = + 24 VDC in	8	8 = + 24 VDC in	9	9 = GND in	10	10 = GND in
1	1 = Pt100_5 Vers.																					
2	2 = CH_5 + Input																					
3	3 = CH_5 - Input																					
4	4 = COM-AGND																					
5	5 = Shield (housing)																					
6	6 = n.c.																					
7	7 = + 24 VDC in																					
8	8 = + 24 VDC in																					
9	9 = GND in																					
10	10 = GND in																					



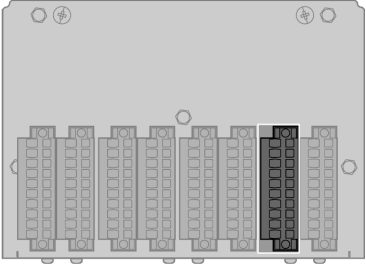
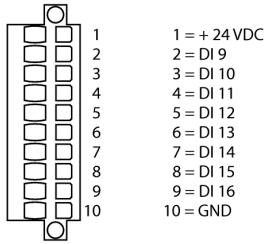
数字输入

针脚配置 CN5



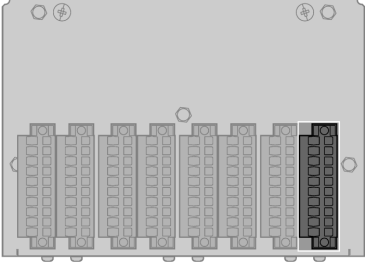
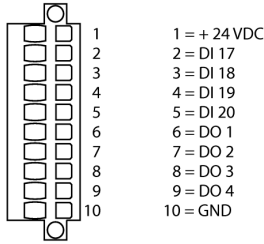
数字输入

针脚配置 CN6



数字量输入/输出

针脚配置 CN7



数字量输出

针脚配置 CN8

