

TX HMI / PLC-serie

Plug-in module

20 DI, 12 DO 0,5 A ,4 AI (U, I, RTD, TC), 4 AO (U, I)

TX-IO-XX03



- Plug-in uitbreidingsmodule om te gebruiken met HMI's van de TX500 en TX700 productfamilie
- I/O-module
- 20 digitale ingangen, 24 VDC, pnp
- 12 digitale uitgangen, 24 VDC, 0.5A, pnp
- 4 analoge ingangen, U, I, RTD, TC
- 4 analoge uitgangen, U, I

Type	TX-IO-XX03
Identnr.	6828201

Systeemdata	
Voedingsspanning	24 VDC
Toelaatbaar bereik	12 ... 30 VDC
Systeemvoeding	uit de HMI
Aansluittechniek - spanningsvoeding	steekbare trekveerklemmenlijst
Potentiaalscheiding	optisch, 1500 V _{rms}

Digitale ingangen	
Kanalenaantal	20
Aansluittechniek ingangen	3 steekbare trekveerklemmenlijsten 10-polig, 3,5 mm raster (Weidmueller - Omnimate BLZF 3.5/180F)
Ingangstype	PNP
Signaalspanning laag niveau	<6 V
Signaalspanning High Level	>12 V
Signaalstroom Low Level	<1 mA
Signaalstroom High Level	>3 mA
Ingangsvertraging	0,05 (op S-ingangen), 0,0002 (op E-ingangen) ms
Sensorvoeding	24 VDC
Potentiaalscheiding	1500 V _{rms}

Analoge ingangen	
Kanalenaantal	4
Systeemuitvoeringen	Stroom, spanning, weerstand, thermo-element
Resolutie	12 Bit
Basisfoutgrens bij 25 °C	0,1%

Operating mode voltage	
Max. ingangsspanning	15 V
Ingangssignaaltypes	4 differentiël (alternatief 8 AI single-ended, alleen in bedrijfsmodus Spanning)
Meetbereik	+/-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 %

Systeemuitvoering stroom	
Max. Eingangsspannung	15 V
max. ingangsstroom	20 mA
Belastingsweerstand	200 Ω
Ingangssignaaltypes	4 differentiële ingangen, extern gevoed
Meetbereik	0...20 mA, 4...20 mA
Linearity	0.1 %
Basic error at 25 °C	0,1%

Systeemuitvoering RTD/weerstand	
Temperatuureenheid	°Celsius, °Fahrenheit, mΩ
Meetbereik	-100 ... 850 °C
Aansluittypes	2-, 3-, 4-draads
measurement current	1.2 mA
Repeat accuracy	< 0.1 %

Systeemuitvoering thermoelement	
Temperatuureenheid	μV
Meetbereik	E (-270...1000 °C), J (-210...760 °C), K (-270...1370 °C), R (0...1768 °C), S (0...1768 °C), T (-270...400 °C)
compensatie referentiepunten	extern via Pt100 comp. Ingang (CN4 pin 1-5)
Basic error at 25 °C	0.1 %

Digitale uitgangen	
Kanalenaantal	12
Aansluittechniek uitgangen	2 steekbare trekveerklemmenlijsten 10-polig, 3,5 mm raster (Weidmueller - Omnimate BLZF 3.5/180F)
Uitgang	PNP
Uitgangsspanning	24 VDC
Uitgangsstroom per kanaal	0,5 A
Gelijktijdigheidsfactor	0:23
Uitgangsvertraging	0.15 ms
Kortsluitbeveiliging	Ja
Actuatorvoeding	24 VDC extern gevoed
Potentiaalscheiding	1500 V _{ms}

Analoge uitgangen	
Aantal kanalen	4
Systeemuitvoeringen	+/-100 mV, +/-500 mV, +/-1 V, +/-5 V, +/-10 V, 0 ... 1 V, 0 ... 10 V +/-2 mA, +/-10 mA, +/-20 mA
Resolutie	12 Bit

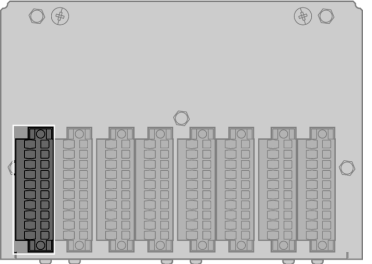
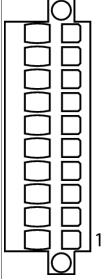
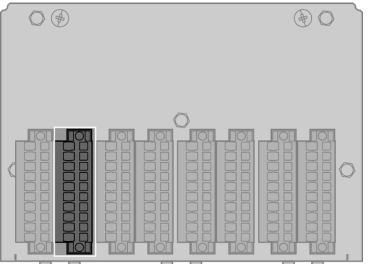
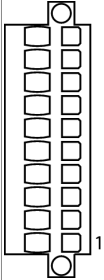
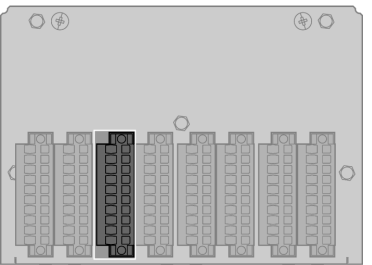
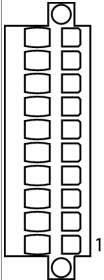
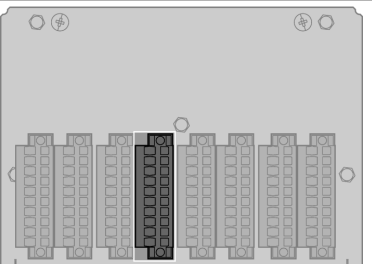
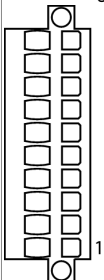
Operating mode voltage	
Load resistor	>1 k Ω
Output signal type	Single-Ended
Output signal range	+/-10 V
Linearity	0.15 %

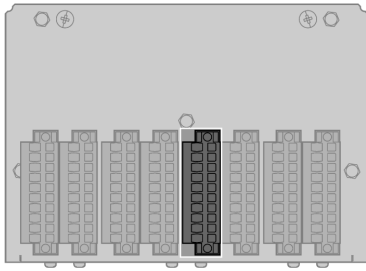
Operating mode current	
Lastweerstand	<470 Ω
Output signal type	actief
Bereik uitgangssignaal	0 ... 20 mA
Linearity	0.2 %

Normen-/richtlijnenconformiteit	
Goedkeuringen en certificaten	CE, cULus, Class 1 Div. 2, DNV-GL

Systeemdata	
Afmetingen (B x L x D)	125.2 x 89.3 x 33.7 mm
Omgevingstemperatuur	0...+50 °C
Beschermingsgraad	IP20
Behuizingsmateriaal	metaal
Behuizingskleur	zilver
Montage	op HMI's van de TX500- en TX700-serie

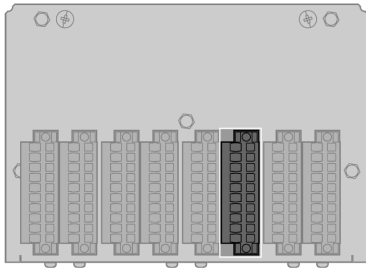
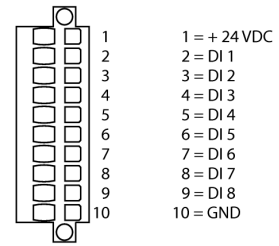
aansluittechniek en pinbeleggingen

	<p>Analoge ingangen</p>	<p>Pinbezigting CN1</p>  <table border="0"> <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.																					
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	<p>Analoge ingangen</p>	<p>Pinbezigting CN2</p>  <table border="0"> <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)
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	<p>Analoge uitgangen</p>	<p>Pinbezigting CN3</p>  <table border="0"> <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)
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	<p>Compensatie van de referentiepunten (Pt100) en voedingsspanning dig. I/O</p>	<p>Pinbezigting CN4</p>  <table border="0"> <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
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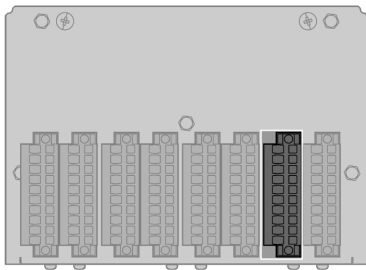
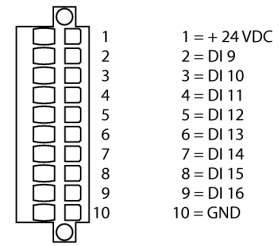
Digitale ingangen

Pinbezetting CN5



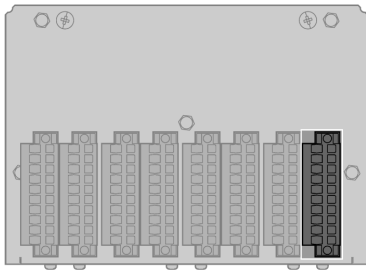
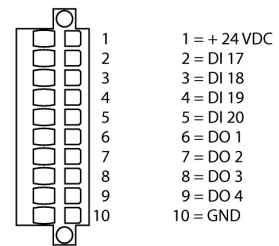
Digitale ingangen

Pinbezetting CN6



Digitale in- en uitgangen

Pinbezetting CN7



Digitale uitgangen

Pinbezetting CN8

