

Modicon OTB interface modules

IP20 optimum modular I/O system, for simple machines (up to 248 I/Os)

Applications	Data exchange between a control source (PLC, variable speed drives, PC, etc.) and the inputs and outputs
Compatibility	<input type="checkbox"/> Magelis HMI Controller XBTGC <input type="checkbox"/> Drive controllers Altivar IMC (with Altivar 61 or Altivar 71 variable speed drives) <input type="checkbox"/> Modicon TM2 I/O expansion modules
Type of bus or network	Ethernet Modbus/TCP network



Nature of bus or network	Mixed local industrial network
Structure	Physical interface Access method Transfer rate
	10/100 BASE-T (RJ 45 connector) CSMA-CD 10/100 Mbit/s
Medium	Shielded dual twisted pair via Ethernet ConneXium cabling system
Configuration	Number of devices Maximum length (distance)
	256 max. per network segment. Unlimited using switches. 500 m (1640 ft) according to standard 802.3 1000 m (3280 ft) with ConneXium cabling system
Digital inputs/outputs	Number of I/O Number of inputs Number of outputs
	20 I/O 12 \rightarrow 24 V sink/source (PNP or NPN) inputs 6 relay outputs and 2 \rightarrow 24 V transistor, source (PNP) outputs
Type of connection	Removable screw terminal blocks
Input/output extension	Number of extension modules Maximum I/O configuration
	7 digital or analogue input/output modules, or connection accessories With interface module: - 132 with screw terminal digital I/O extension module, - 164 with spring terminal digital I/O extension module, - 288 with type HE-10 connector digital I/O extension module, - screw terminal analog I/O: up to 7 x 8 I, or 7 x 2 O, or 7 x (4 I/2 O)
Integrated I/O functions	Counting, 5 kHz or Counting, 20 kHz Pulse generator, 7 kHz
	2 channels, 32 bits (0...4 294 967 295 points) - dedicated digital inputs - up/down counting with preset value 2 channels, 32 bits (0...4 294 967 295 points) - dedicated digital inputs/outputs - up/down counting, up counting, down counting, frequency meter 2 PWM function channels (output with pulse width modulation) and PLS function (pulse generator output)
Supply voltage	\rightarrow 24 V supply
Type	OTB1E0DM9LP
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Data exchange between a control source (PLC, variable speed drives, PC, etc.) and the inputs and outputs	
<input type="checkbox"/> Magelis HMI Controller XBTGC <input type="checkbox"/> Drive controllers Altivar IMC (with Altivar 61 or Altivar 71 variable speed drives) <input type="checkbox"/> Modicon TM2 I/O expansion modules	
CANopen bus	Modbus Serial link



CAN fieldbus	Local RS 485 network
ISO 11898 (SUB-D 9-pin connector) CSMA-MA, multimaster 10...1000 Kbit/s depending on distance	RS 485 (2 x RJ 45 connectors in parallel) Master-slave 1.2...38.4 Kbit/s
Shielded dual twisted pair 127 slaves From 30 m (98.43 ft) (1 Mbit/s) to 1000 m (3280 ft) (> 50 Kbit/s)	Dual twisted pair 32 slaves per segment Up to 1000 m (3280 ft)
20 I/O 12 \rightarrow 24 V sink/source (PNP or NPN) inputs 6 relay outputs and 2 \rightarrow 24 V transistor, source (PNP) outputs	
Removable screw terminal blocks	
7 digital or analogue input/output modules, or connection accessories	
With interface module: - 132 with screw terminal digital I/O extension module, - 164 with spring terminal digital I/O extension module, - 288 with type HE-10 connector digital I/O extension module, - screw terminal analog I/O: up to 7 x 8 I, or 7 x 2 O, or 7 x (4 I/2 O)	
2 channels, 32 bits (0...4 294 967 295 points) - dedicated digital inputs - up/down counting with preset value	
2 channels, 32 bits (0...4 294 967 295 points) - dedicated digital inputs/outputs - up/down counting, up counting, down counting, frequency meter	
2 PWM function channels (output with pulse width modulation) and PLS function (pulse generator output)	
\rightarrow 24 V supply	
OTB1C0DM9LP	OTB1S0DM9LP
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Modicon OTB interface modules

IP20 optimum modular I/O system, for simple machines (up to 248 I/Os)

Interface modules with integrated digital I/O

Supply voltage	Number and type of			Connection by	Fieldbus or network	Reference	Weight kg/lb
	inputs	solid-state outputs	relay outputs				
= 24 V	12 I	2 O	6 O	Removable screw terminal block	Ethernet Modbus/TCP	OTB1E0DM9LP	0.185
	= 24 V	= 24 V	= 30 V/ ~ 240 V				0.407
	IEC type 1 (1 common)	0.3 A (1 common)	2 A (3 commons)				



OTB1E0DM9LP

CANopen bus	OTB1C0DM9LP	0.195 0.429
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OTB1C0DM9LP

Modbus RS 485 Serial link	OTB1S0DM9LP	0.190 0.418
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OTB1S0DM9LP

Modicon OTB interface modules

IP20 optimum modular I/O system, for simple machines (up to 248 I/Os)



OTB9ZZ61JP

Separate components


Description	Usage	Number of commons	Connection by	Capacity wires	Reference	Weight kg / lb
Commoning module	For grouping input or output commons, 8 A maximum; inter-module	2 isolated groups	Removable screw terminal block	2 x 10	OTB9ZZ61JP	0.100 0.220
Fixing kit Sold in lots of 5	For plate or panel mounting of modular base controllers or extensions	–	–	–	TWDXMT5	–
Software and documentation	Configuration software “Modicon Configuration Tool-Lite” and hardware user guides	–	–	–	FTXES01	0.050 0.110

Connections

Description	Usage	Reference
Ethernet Modbus/TCP network	Cabling system: ConneXium Hub and switches, cordsets, cables and connectors	Please consult on our web site www.schneider-electric.com
CANopen Bus	Cabling system: Tap links, cables, cordsets, IP 20 and IP 67 accessories	Please consult on our web site www.schneider-electric.com
Modbus serial link	Cabling system : Tap links, Hub, cables, cordsets, line end adapters	Please consult on our web site www.schneider-electric.com

Applications	Type of expansion modules	Digital inputs with removable screw terminal block		
	Compatibility	<ul style="list-style-type: none"> - Modicon OTB interface modules - Magelis HMI Controller XBTGC - Modicon M221 logic controllers - Modicon M241 logic controllers - Modicon M251 logic controllers - Modicon M238 logic controllers - Twido controllers 		
				
Number and type		8 $\overline{\text{---}}$ 24 V inputs	8 \sim 120 V inputs	16 $\overline{\text{---}}$ 24 V inputs
Connection		By removable screw terminal block		
Inputs	Voltage range	$\overline{\text{---}}$ 20.4...28.8 V	\sim 85...132 V	$\overline{\text{---}}$ 20.4...28.8 V
	Input current	7 mA per channel	7.5 mA per channel	7 mA per channel
	Input logic	Sink/source (1)	–	Sink/source (1)
	Commons	1 x 8 channels	1 x 8 channels	1 x 16 channels
	Response time	4 ms	25 ms	4 ms
	<input type="checkbox"/> Off-on <input type="checkbox"/> On-off	4 ms	30 ms	4 ms
Outputs	Output types	–		
	Voltage range	–		
	Commons	–		
	Output current	–		
	<input type="checkbox"/> Per output <input type="checkbox"/> Per group of channels	–		
Isolation	Between channels	None		
	Between channels and internal logic	500 V rms \sim for 1 min	1500 V rms \sim for 1 min	500 V rms \sim for 1 min
I/O module type		TM2DDI8DT	TM2DAI8DT	TM2DDI16DT
Pages		14		

(1) Sink input: positive logic, source input: negative logic.

Applications	Type of expansion modules	Digital inputs with HE10 connector	Digital I/O with removable screw terminal block	Digital I/O with non-removable spring terminal block	
	Compatibility	<ul style="list-style-type: none"> - Modicon OTB interface modules - Magelis HMI Controller XBTGC - Modicon M221 logic controllers - Modicon M241 logic controllers - Modicon M251 logic controllers - Modicon M238 logic controllers - Twido controllers 			
					
Number and type		16 $\overline{\text{---}}$ 24 V inputs	32 $\overline{\text{---}}$ 24 V inputs	4 $\overline{\text{---}}$ 24 V inputs/4 relay outputs	16 $\overline{\text{---}}$ 24 V inputs/8 relay outputs
Connection		By HE10 connector Allows use of the Modicon Telefast ABE 7 pre-wired system		By removable screw terminal block	By non-removable spring terminal block
Inputs	Voltage range	$\overline{\text{---}}$ 20.4...28.8 V		$\overline{\text{---}}$ 20.4...28.8 V	
	Input current	5 mA per channel		7 mA per channel	
	Input logic	Sink/source (1)		Sink/source (1)	
	Commons	1 x 16 channels	2 x 16 channels	1 x 4 channels	1 x 16 channels
	Response time	4 ms		4 ms	
	<input type="checkbox"/> Off-on <input type="checkbox"/> On-off	4 ms		4 ms	
Outputs	Output types			1 N/O contact	
	Voltage range			\sim 240 V, $\overline{\text{---}}$ 30V	
	Commons			1 x 4 channels	2 x 4 channels
	Output current			2 A (lth)	
	<input type="checkbox"/> Per output <input type="checkbox"/> Per group of channels			7 A (lth)	
Isolation	Between channels	None		None between input channels, none between output channels	
	Between channels and internal logic	500 V rms \sim for 1 min		Between input group and output groups: 1500 V rms \sim for 1 min	
				Between output groups: 1500 V rms \sim for 1 min	
				Between input channels and internal logic: 500 V rms \sim for 1 min	
			Between output channels and internal logic: 2300 V rms \sim for 1 min		
I/O module type		TM2DDI16DK	TM2DDI32DK	TM2DMM8DRT	TM2DMM24DRF
Pages		14			

Modicon TM2 Expansion modules

Modicon TM2 Digital modules

Applications	Type of expansion modules	8/16 outputs with removable screw terminal block			
	Compatibility	<ul style="list-style-type: none"> - Modicon OTB interface modules - Magelis HMI Controller XBTGC - Modicon M221 logic controllers - Modicon M241 logic controllers - Modicon M251 logic controllers - Modicon M238 logic controllers - Twido controllers 			



Type	8 --- 24 V transistor outputs	8 relay outputs	16 relay outputs
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Connection	By removable screw terminal block			
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Outputs	Output types	Transistor		Relay with 1 N/O contact		
	Voltage range	--- 20.4...28.8 V				
	Logic (1)	Sink	Source	-		
	Commons	1 x 8 channels		2 x 4 channels	2 x 8 channels	
	Output current	0.3 A max.	0.5 A max.	2 A max.		
	Protection against overload and short-circuit	3 A at 28.8 V	4 A at 28.8 V	7 A max.	8 A max.	

Isolation	Between channels	None		None	
	Between group of channels	-		1500 V rms for 1 min	
	Between channels and internal logic	500 V rms ~ for 1 min		2300 V rms ~ for 1 min	

Output module type	TM2DDO8UT	TM2DDO8TT	TM2DRA8RT	TM2DRA16RT
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(1) Source output: positive logic, sink output: negative logic.

16/32 outputs with HE 10 connectors				
<ul style="list-style-type: none"> - Modicon OTB interface modules - Magelis HMI Controller XBTGC - Modicon M221 logic controllers - Modicon M241 logic controllers - Modicon M251 logic controllers - Modicon M238 logic controllers - Twido controllers 				



16 --- 24 V transistor outputs	16 --- 24 V transistor outputs	32 --- 24 V transistor outputs	32 --- 24 V transistor outputs
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By HE10 connector	By HE10 connector Allows use of the Modicon Telefast ABE 7 pre-wired system	By HE10 connector	By HE10 connector Allows use of the Modicon Telefast ABE 7 pre-wired system
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Outputs	Output types	Transistors			
	Voltage range	--- 20.4...28.8 V			
	Logic (1)	Sink	Source	Sink	Source
	Commons	1 x 16 channels		2 x 16 channels	
	Output current	0.1 A max.	0.4 A max.	0.1 A max.	0.4 A max.
	Protection against overload and short-circuit	1 A at 28.8 V	2 A at 28.8 V	1 A at 28.8 V	2 A at 28.8 V

Isolation	Between channels	None			
	Between group of channels	-			
	Between channels and internal logic	500 V rms ~ for 1 min			

Output module type	TM2DDO16UK	TM2DDO16TK	TM2DDO32UK	TM2DDO32TK
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Modicon TM2 Expansion modules

Modicon TM2 Digital modules



TM2DDI8DT



TM2DDI32DK



TM2DDO8●T/DRA8RT



TM2DDO16●K



TM2DDO32●K



TM2DRA16RT



TM2DMM8DRT



TM2DMM24DRF

References

Digital input modules

Input voltage	Nb of channels	Nb of common points	Connection	Reference	Weight kg lb
≡ 24 V sink/source	8	1	Removable screw terminal block (supplied)	TM2DDI8DT	0.085 0.187
	16	1	Removable screw terminal block (supplied)	TM2DDI16DT	0.100 0.220
			HE 10 connector	TM2DDI16DK (1)	0.065 0.143
	32	2	HE 10 connector	TM2DDI32DK (1)	0.100 0.220
~ 120 V	8	1	Removable screw terminal block (supplied)	TM2DAI8DT	0.081 0.179

Digital output modules

Type de sortie	Nb of channels	Nb of common points	Connection	Reference	Weight kg lb
Transistors ≡ 24 V	8, sink 0.3 A	1	Removable screw terminal block (supplied)	TM2DDO8UT	0.085 0.187
	8, source 0.5 A	1	Removable screw terminal block (supplied)	TM2DDO8TT	0.085 0.187
Transistors ≡ 24 V	16, sink 0.1 A	1	HE 10 connector	TM2DDO16UK	0.070 0.154
	16, source 0.4 A	1	HE 10 connector	TM2DDO16TK (1)	0.070 0.154
	32, sink 0.1 A	2	HE 10 connector	TM2DDO32UK	0.105 0.231
	32, source 0.4 A	2	HE 10 connector	TM2DDO32TK (1)	0.105 0.231
Relay 2 A (lth) ~ 230 V/≡ 30 V	8 (N/O contact)	2	Removable screw terminal block (supplied)	TM2DRA8RT	0.110 0.243
	16 (N/O contact)	2	Removable screw terminal block (supplied)	TM2DRA16RT	0.145 0.320

Digital mixed input/output modules

Nb of I/O	Nb, type of input	Nb, type of output	Nb of common points	Connection	Reference	Weight kg lb
8	4 I, ≡ 24 V sink/source	4 O, relay (N/O contact) 2 A (lth)	Inputs: 1 common Outputs: 1 common	Removable screw terminal block (supplied)	TM2DMM8DRT	0.095 0.209
24	16 I, ≡ 24 V sink/source	8 O, relay (N/O contact) 2 A (lth)	Inputs: 1 common Outputs: 2 commons	Non-removable spring terminal block	TM2DMM24DRF	0.140 0.309

(1) Module that allows use of the Modicon Telefast ABE 7 pre-wired system.



OTB9ZZ61JP

References

Separate components

Description	Application	Reference	Weight kg lb
Mounting kit Sold in lots of 5	For plate or panel mounting of the digital modules.	TWDXMT5	0.065 0.143
Commun distribution module	For distribution of supply commons. 8 A max. Connection on 2 removable screw terminal blocks	OTB9ZZ61JP	0.100 0.220

Description	Number of ways	Reference	Weight kg lb
HE 10 female connectors Sold in lots of 5	20 26	TWDFCN2K20 TWDFCN2K26	– –

Pre-formed cables for digital I/O modules with HE 10 connectors

Description	For use with Twido	Gauge C.s.a.	Cable length	Reference	Weight kg lb
Pre-formed cables 1 pre-formed cable: one end fitted with HE 10 connector, one end with free wires	I/O expansions TM2 DDI	AWG 22 0.035 mm ²	3 m	TWDFCW30K	0.405 0.892
	16DK/32DK TM2 DDO 16●K/32●K	AWG 22 0.035 mm ²	5 m	TWDFCW50K	0.670 1.477

Pre-formed connecting cables (1)

Description	Association	Jauge Section	Longueur cordon	Reference	Weight kg lb
Digital input pre-formed cables, 1 pre-formed cable: one end with 20-way HE 10 connector on TM2 side, one end with 20-way HE 10 connector on sensor side	Inputs TM2 DDI	AWG 28 0.080 mm ²	1 m	ABFTE20EP100	0.080 0.176
	16DK/32DK	AWG 28 0.080 mm ²	2 m	ABFTE20EP200	0.140 0.309
		AWG 28 0.080 mm ²	3 m	ABFTE20EP300	0.210 0.463
Digital output pre-formed cables 1 pre-formed cable: one end with 20-way HE 10 connector on TM2 side, one end with 20-way HE 10 connector on preactuator side	Outputs TM2 DDO	AWG 28 0.080 mm ²	1 m	ABFTE20SP100	0.080 0.176
	16TK/32TK	AWG 28 0.080 mm ²	2 m	ABFTE20SP200	0.140 0.309
		AWG 28 0.080 mm ²	3 m	ABFTE20SP300	0.210 0.463

(1) Cables for applications with Twido controllers.

Applications	Type of expansion modules Compatibility
	<ul style="list-style-type: none"> - Modicon OTB interface modules - Magelis HMI Controller XBTGC - Modicon M221 logic controllers - Modicon M241 logic controllers - Modicon M251 logic controllers - Modicon M238 logic controllers - Twido controllers



Type	2 inputs	4 inputs	8 inputs
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Nature	Voltage/current	Thermocouple inputs	Voltage/current Temperature probe	Voltage/current
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Connection	Removable screw terminal block			
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Inputs	Range	0...10 V 4...20 mA (non differential)	Thermocouple type J, K and T (differential) (1)	<input type="checkbox"/> 0...10 V or 0...20 mA (Transfer time: 160 ms per channel) <input type="checkbox"/> Temperature probe 2, 3 or 4-wire: - Pt 100/1000: -200...600 °C, - Ni 100/1000: -50...150 °C (non differential) (Transfer time: 320 ms per channel + 1 controller cycle time)	0...10 V 0...20 mA (non differential)
	Resolution	12 bits (4096 points)	12 bits (4096 points)	12 bits (4096 points)	10 bits (1024 points)
	Acquisition period	10 ms per channel + 1 controller cycle time	200 ms per channel + 1 controller cycle time	<input type="checkbox"/> 160 ms per channel <input type="checkbox"/> 320 ms per channel + 1 controller cycle time	160 ms per channel + 1 controller cycle time

Outputs	Range	-
	Resolution	-
	Transfer time	-

External supply	Nominal voltage	~ 24 V
	Limit values	~ 20.4...28.8 V

Isolation	Between channels	Non isolated
	Between channels and sensor supply	~ 500 V rms
	Between channels and internal logic	~ 500 V rms ~ 2500 V rms ~ 2500 V rms

Analog I/O module type	TM2AMI2HT	TM2AMI2LT	TM2AMI4LT	TM2AMI8HT
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(1) ⚠ Analog inputs module TM2AMI2LT do not detect the absence/presence of PC R3 5984 cable.
 (2) Connection by a removable screw terminal block.
 (3) Connection by a RJ11 connector.
 (4) ⚠ When cable is disconnected, analog value is max.

Analog inputs (continued)	Analog outputs	Analog I/O
<ul style="list-style-type: none"> - Modicon OTB interface modules - Magelis HMI Controller XBTGC - Modicon M221 logic controllers - Modicon M241 logic controllers - Modicon M251 logic controllers - Modicon M238 logic controllers - Twido controllers 		



Type	8 inputs	1 output	2 outputs	2 inputs/1 output	4 inputs/2 outputs
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Nature	Temperature probe inputs	Voltage/current	Voltage	Voltage/current	Thermocouple/temperature probe inputs Voltage/current output	Voltage/current
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Connection	Removable screw terminal block	Removable screw terminal block and RJ11 connectors	Removable screw terminal block		
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Inputs	Range	NTC probe (non differential)	PTC probe ⚠ Threshold detection (high and low) (non dif.)	Temperature probe 2 or 3-wire Pt100: -200...600 °C Pt1000: -50...200 °C (non differential)	-	0...10 V 4...20 mA (non differential)	Thermocouple type J, K and T Temperature probe 2 or 3-wire Pt100: -100...500 °C (differential) (4)	0...10 V 4...20 mA (non differential)
	Resolution	10 bits (1024 pts)	1 < range 2 = range 4 > range	12 bits (4096 points)	-	12 bits or 11 bits + sign (4096 points)	12 bits (4096 points)	
	Acquisition period	160 ms per channel + 1 controller cycle time	320 ms per channel (1280 ms maxi.) + 1 controller cycle time	-	10 ms per channel + 1 controller cycle time	50 ms per channel + 1 controller cycle time	16 ms (fast) / 64 ms (normal) per channel + 1 controller cycle time	

Outputs	Range	-	0...10 V 4...20 mA	± 10 V	0...10 V 4...20 mA
	Resolution	-	12 bits (4096 points)	11 bits (2048 points) + sign	12 bits (4096 points)
	Transfer time	-	10 ms + 1 controller cycle time	2 ms + 1 controller cycle time	20 ms + 1 controller cycle time

External supply	Nominal voltage	~ 24 V	~ 19.2...30 V	~ 24 V	~ 19.2...30 V
	Limit values	~ 20.4...28.8 V	~ 19.2...30 V	~ 24 V	~ 19.2...30 V

Isolation	Between channels	Non isolated
	Between channels and sensor supply	~ 500 V rms
	Between channels and internal logic	~ 500 V rms ~ 500 V rms Non isolated ~ 500 V rms ~ 500 V rms ~ 800 V rms ~ 2500 V rms ~ 500 V rms ~ 2500 V rms ~ 500 V rms ~ 1500 V rms

Analog I/O module type	TM2ARI8HT	TM2ARI8LT (2) TM2ARI8LRJ (3)	TM2AMO1HT	TM2AVO2HT	TM2AMM3HT	TM2ALM3LT	TM2AMM6HT
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(1) ⚠ Analog inputs module TM2AMI2LT do not detect the absence/presence of PC R3 5984 cable.
 (2) Connection by a removable screw terminal block.
 (3) Connection by a RJ11 connector.
 (4) ⚠ When cable is disconnected, analog value is max.



TM2AMI2HT



TM2AMI2LT



TM2ARI8LRJ



TM2ARI8LT



TM2ALMLT



TM2AMM6HT



TM2XMTGB

TM200
RSRCEMC

References

Analog input modules

Channel type	Input range	Output range	Resolution	Connection by	Reference	Weight kg lb
2 inputs	0...10 V 4...20 mA	–	12 bits	Removable screw terminal block (supplied)	TM2AMI2HT	0.085 0.187
	Thermocouple K, J, T	–	12 bits	Removable screw terminal block (supplied)	TM2AMI2LT	0.085 0.187
4 inputs	0...10 V 0...20 mA Temperature	–	12 bits	Removable screw terminal block (supplied)	TM2AMI4LT	0.085 0.187
8 inputs	0...10 V 0...20 mA	–	10 bits	Removable screw terminal block (supplied)	TM2AMI8HT	0.085 0.187
	Pt 100 Pt 1000	–	12 bits	RJ11 connector	TM2ARI8LRJ	0.190 0.419
				Removable screw terminal block (supplied)	TM2ARI8LT	0.190 0.419
	PTC/NTC	–	10 bits for NTC 2-threshold detection with PTC	Removable screw terminal block (supplied)	TM2ARI8HT	0.085 0.187

Analog output modules

1 output	–	0...10 V 4...20 mA	12 bits	Removable screw terminal block (supplied)	TM2AMO1HT	0.085 0.187
2 outputs	–	± 10 V	11 bits + sign	Removable screw terminal block (supplied)	TM2AVO2HT	0.085 0.187

Analog I/O modules

2 inputs and 1 output	0...10 V 4...20 mA	0...10 V 4...20 mA	12 bits	Removable screw terminal block (supplied)	TM2AMM3HT	0.085 0.187
	J, K, T thermocouple 3-wire Pt 100 temperature probe	0...10 V 4...20 mA	12 bits	Removable screw terminal block (supplied)	TM2ALM3LT	0.085 0.187
4 inputs and 2 outputs	0...10 V 4...20 mA	0...10 V 4...20 mA	12 bits	Removable screw terminal block (supplied)	TM2AMM6HT	0.085 0.187

Separate components

Description	Description	Reference	Weight kg lb
Ground connection plate	Plate equipped with male Faston connector for connecting cable shielding (via Faston clamp 6.35 mm/0.25 in., not supplied) and functional grounds (FG)	TM2XMTGB	0.045 0.099
Shielding connection clamps	Attach and ground the shielding of the cables <i>Sold in lots of 25 (20 for cable Ø 4.8 mm/Ø 0.19 in. and 5 for cable Ø 7.9 mm/Ø 0.31 in.)</i>	TM200RSRCEMC	–
Mounting kit	For plate or panel mounting of the analog modules. <i>Sold in lots of 5</i>	TWDXMT5	0.065 0.143



TM200HSC206DT



TM200HSC206DF



TM2XMTGB

References

Expert modules (3 modules max. per controller)

Description	No. of channels	Characteristics	Connection	Reference	Weight kg /lb
Counter modules for: - 24 V $\overline{\text{DC}}$ 2 and 3-wire sensors - 15/30 V $\overline{\text{DC}}$ incremental encoders with source outputs (positive logic)	2	60 kHz counting	Screw terminals	TM200HSC206DT	0.150 0.331
			Spring terminals	TM200HSC206DF	0.150 0.331

Separate parts

Designation	Description	Reference	Weight kg /lb
Ground connection plate	Support equipped with 10 male Faston connectors for connecting the cable shielding (via 6.35 mm/0.25 in. connectors, not supplied) and the functional grounds (FG)	TM2XMTGB	0.045/ 0.099
Mounting kit Sold in lots of 5	For plate or panel mounting of the analog modules	TWDXMT5	0.065 0.143