

# DeviceNet compatible serial transmission slave station W4G-T7 Series



## Introducing a new DeviceNet compatible slave unit to the series

#### **Overview**

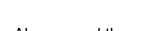
- Following the introduction of the T7 series DeviceNet slave unit, 16/32 point, NPN/PNP output, 16 point input and 16 point output NPN/PNP selections are possible.
- 16 point input and 16 point output can be selected for the W4G4 series.

## **Features**

- The QuickConnect function enables shortening of the time to establish communication.
- ■Address setting via the network is possible.
- IP65 structure.

#### [Compatibility]

MW3/4GA2, MW4GB2, MW4GZ2 MW4GB4, MW4GZ4

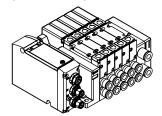


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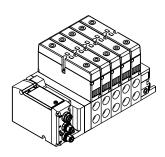
## W4G-T7 Series

#### **Specifications**

#### W4G2 (without I/O block)



W4G4 (without I/O block)

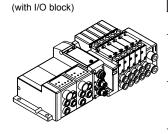


#### Slave unit dedicated for valves (without I/O block)

Descriptions		T7D1	T7D2 *1	T7DP1	T7DP2 *1									
Netwo	ork name	DeviceNet												
Power	Communication side	11 to 25 VDC												
Voltage	Valve side	24 VDC +10%, -5%												
Consumption	Communication side	40 mA or less	50 mA or less	40 mA or less	50 mA or less									
Current	Valve side	15 mA or less (excluding load current)												
Valv	e output	NF	PN	PNP										
I/O	points	16 point output	point output 32 point output 16 point output											
LED	Power supply	2 areas: Communication power supply (PW), valve power supply (PW (V))												
Display	Communication	2 areas: MS, NS												
Degree o	of protection		IP	65										

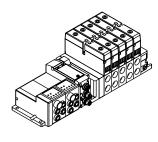
<sup>\*1:</sup> No 32 point output when connecting with W4G4 valve.

#### Slave unit with I/O block



W4G4 (with I/O block)

W4G2



Desc	riptions	T7DB7	T7DPB7									
Netwo	ork name	DeviceNet										
Power supply	Communication side	11 to 25 VDC										
Voltage	Valve side	24 VDC +10%, -5%										
Consumption	Communication side	40 mA or less (*2: excluding input block current)										
Current	Valve side	15 mA or less (excluding load current)										
Valv	e output	NPN	PNP									
I/O	points	16 point input/16 point output	16 point input/16 point output									
LED	Power supply	2 areas: Communication power suppl	y (PW), valve power supply (PW (V))									
Display	Communication	2 areas:	MS, NS									
Degree o	of protection	IP	65									

<sup>\*2:</sup> If the feed power supply of the input blocks also serves as the unit power supply, refer to "Pneumatic Valves" (No. CB-023SA).

#### Compatibility

MW3/4GA2, MW4GB2, MW4GZ2 MW4GB4, MW4GZ4

#### Specifications by model/how to order

#### Individual specifications

#### MW4G\*2

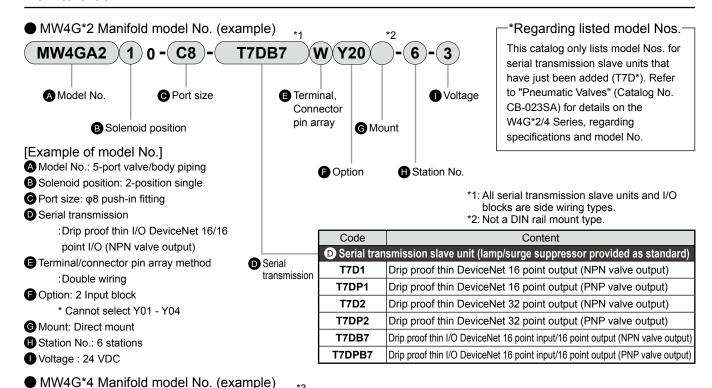
Descr	iptions	T7D*1	T7D*2	T7D*7
Max. station	Standard wiring	16	18	16
No.	Double wiring	8	16	8
Max. numbe	r of solenoids	16	32	16
Max. number of I/O blocks (I/O)		-	-	(16/8)

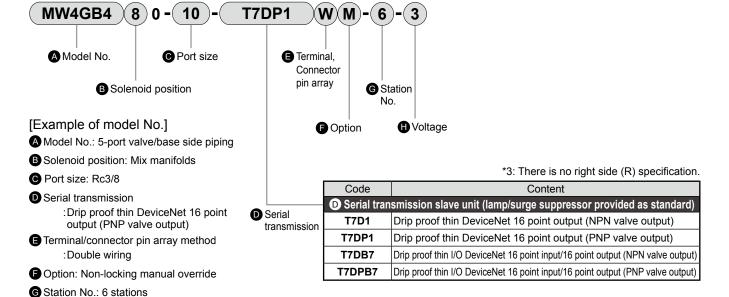
#### MW4G\*4

Descr	iptions	T7D*1	T7D*7						
Max. station	Standard wiring	16	16						
No.	Double wiring	8	8						
Max. numbe	r of solenoids	16	16						
Max. number of	f I/O blocks (I/O)	-	(16/8)						

#### How to order

■ Voltage: 24 VDC

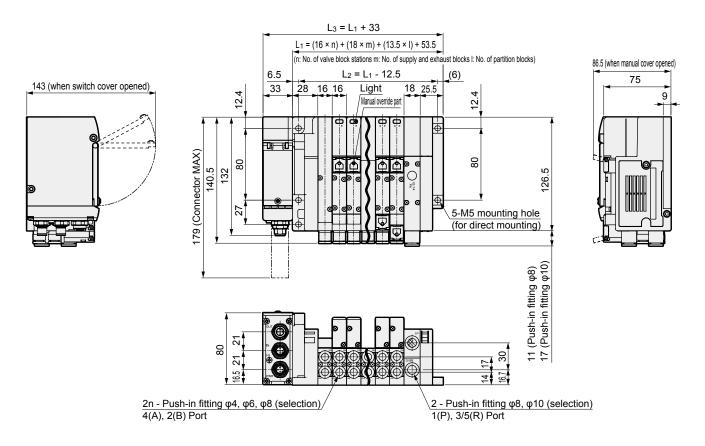




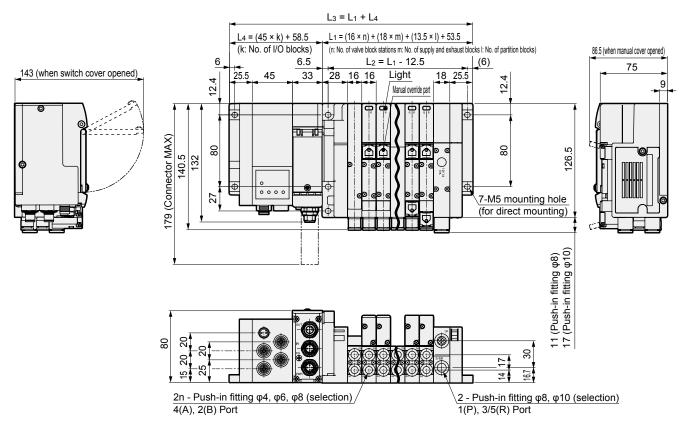
## W4G-T7 Series

#### **Dimensions**

#### ■ MW4GB2-T7D\*\*



#### ● MW4GB2-T7D\*B7 (I/O)

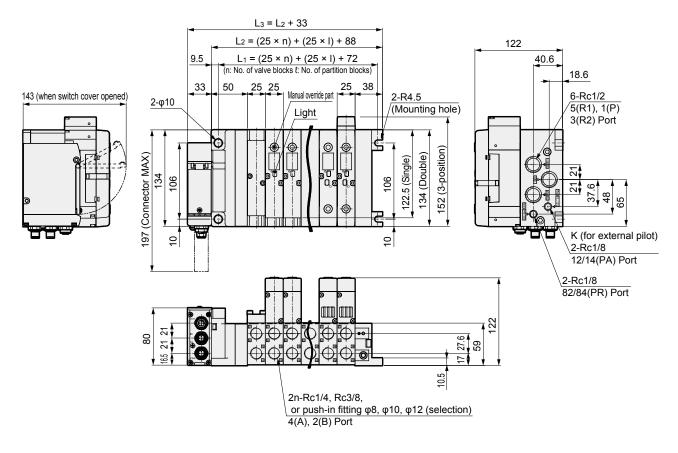


<sup>\*</sup> Refer to "Pneumatic Valves" (No. CB-023SA) for details on the other model Nos.

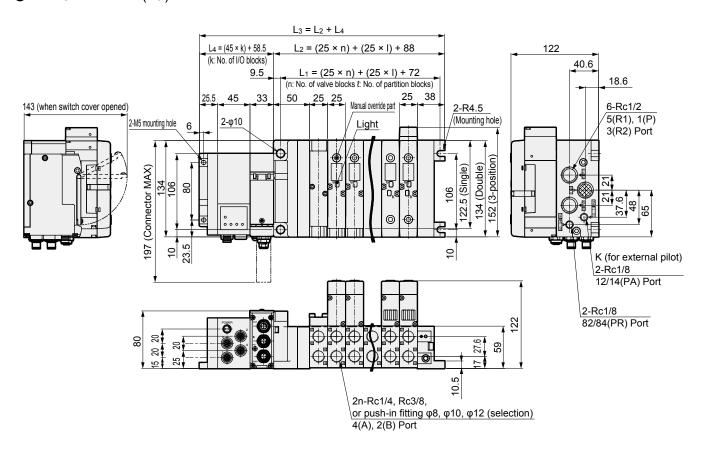
Dimensions

#### **Dimensions**

#### ■ MW4GB4-T7D\*\*



#### MW4GB4-T7D\*B7 (I/O)



<sup>\*</sup> Refer to "Pneumatic Valves" (No. CB-023SA) for details on the other model Nos.

### W4G-T7 Series

#### Technical data

#### Slave unit wiring

#### Wiring of communication line

Please purchase communication cables or connectors that are compatible with the specifications of this product.

For wiring method, refer to the following communication connector pin array and communication cable wiring example.

Connector with cable for both sides: DCA1-5CN\*\*W1 (socket/plug)
IN connector with cable for one side: DCA1-5CN\*\*F1 (socket)
OUT connector: DCA1-5CN\*\*H1 (plug)

Manufactured by OMRON Corporation Manufactured by OMRON Corporation Manufactured by OMRON Corporation

#### Wiring for the power supply socket

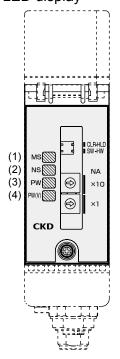
Please purchase power cables or connectors that are compatible with the specifications of this product.

Recommended M12-unfastened lead power cable: XS2F-D421-—8— Straight Manufactured by OMRON Corporation Recommended communication plug and power cable: Part No.: 2103 212 2305

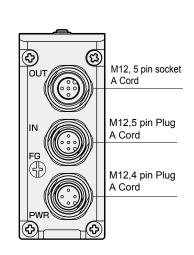
Assembly M12 connector Manufactured by HARTING Electric wire size: AWG22-18, Applicable cable diameter:  $\phi$ 6 to 8

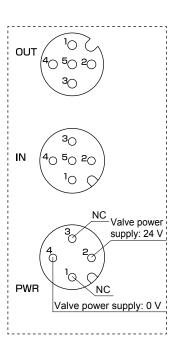
 $^*$   $\square$  differs depending on the cable specifications

#### LED display



#### Wiring





#### LED display description

LED	Name	Display description
(1)	MS	The status of the slave unit related to DeviceNet is indicated by the LED color (green/red) and state (ON/blinking)
(2)	NS	The status of the network related to DeviceNet is indicated by the LED color (green/red) and state (ON/blinking)
(3)	PW	Lights when communication power is ON. Green lamp is ON when normal
(4)	PW (V)	Lights when valve power is ON.  Green lamp is ON when normal  (Cannot be monitored when the communication power is not turned ON)

#### Communication connector pin array

Port	Pin	Signal name	Function
	1	Drain	Shield terminal
	2	V+	Communication power supply (+)
IN	3	V-	Communication power supply (-)
	4	CAN_H	Communication terminal (H)
	5	CAN_L	Communication terminal (L)
	1	Drain	Shield terminal
	2	V+	Communication power supply (+)
OUT	3	V-	Communication power supply (-)
	4	CAN_H	Communication terminal (H)
	5	CAN_L	Communication terminal (L)

#### Power supply connector pin array

Port	Pin	Function									
	1	NC									
PWR	2 Valve power supply: 24 V										
FVVK	3	NC									
	4	Valve power supply: 0 V									

## MW4G ☐ 2 (reduced wiring) block manifold specifications sheet

<ul><li>Contact</li></ul>	ct					s)			<ul><li>Delivery date</li></ul>																Date	iss	sue	t		/	,	!	
Slip No.										Oı	rder	No	).											(	Company								
Manifold n	nodel No.																							(	Cont	tact	:						
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Part name															Lay	out	pos	ition	1														
(page)	Model No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Qty.	
	NW4GB2-IN-[]-[]																																
I/O block	NW4GB2-OUT-[B																																
Wiring block	NW4G2-T7D																																
	NW4G 2 0-																																
	NW4G 2 0																																
	NW4G[]2[]0-[]																																
	NW4G[]2[]0-[]																																
valve Valve block	NW4G[]2[]0-[]																																
	NW4G[]2[]0-[]																										L	L					
	NW3G[]2[]0-[]																										L						
	NW3G[]2[]0-[]																																
With masking plate	NW4G[[[]2-MPS-[[]]																									L	L	L					
Valve block	NW4G[2-MPD-[]																									L	L	L					
	NW4G2-Q[]-[]-[]																								_	L	_	L					
Supply and	NW4G2-Q[]-[]-[]										-					L										$\vdash$	$\vdash$	L	H				
extraust block	NW4G2-Q																									-							
	Air supply spacer W4G2-P																																
	Exhaust spacer																																
Various spacers	W4G2-R- Spacer type pilot check valve W4G2-PC-M																																
	Individual air supply compatible spacer with in-stop valve spacer W4G2-PIS-																																
	NW4G2-						Ť	T		T	T	T	Ì	Ť		Ī	İ	Ť							Ī	Ī	T		F	T	F		
Partition block	NW4G2-																																
	NW4G2-																													П	П		
End block	NW4G2-										İ														Ī	Π	Г						
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	GWP4-B GWP8-B							1		GW			Ŧ					LW-							В	$\top$			- '	Attached part			
			G۷	<b>VP8</b>	-B					(	GWF	<b>1</b> 0-	В					SI	_W-l	H10							$\perp$						

<sup>\*</sup> Wiring block, I/O block is side wiring only.

#### **Block manifold specifications sheet** Date issued Contact Quantity/set(s) Delivery date Slip No. Order No. Company Contact Manifold model No. Order No MW4G Model No. BSolenoid Port size Wiring ●Terminal/ ●Option GStation Voltage method \* connector position No.

Select a model number from "Block components" for "Pneumatic valves" (No. CB-023SA) when inputting.

Pin array method

	Part name	Model No.									lr	nstal	latio	n po	sitio	n									Quantity
	Part name	Model No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Quantity
	End block	NW4G4-E																							
	I/O block	NW4GB2-IN-																							
	I/O DIOCK	NW4GB2-OUTB																							
	Wiring block	NW4G4-T7D																							
		NW4G 4 0																							
		NW4G[]4[]0-[]-[]-[]																							
	Valve block with solenoid valve	NW4G 4 0																							
		NW4G[]4[]0-[]-[]-[]																							
		NW4G[]4[]0-[]-[]-[]																							
	Valve block with	NW4G 4-MP -																							
	masking plate	NW4G 4-MP -																							
ers	Independent air supply spacer	W4G4-P-[]]																							
Spacers	Independent exhaust spacer	W4G4-R-																							
_	Silencer (resin)	SLW-15A																							
ment		GWP8-B				int t	·ha ·-			· • · · · -		a h -		-دالم	+h-a		. 4:4	fial-	۱ ۵ ۳	tha :	4 ما يە ئە				
Attachment	Blanking plug	GWP10-B			ı	_iSt t	me r	iumi	oer (	or un	iits t	o be	use	u in	ıne	quai	шу	пею	on	ıne I	ignt	•			
`		GWP12-B																							

<sup>\*</sup> I/O block is side wiring only.

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<sup>\*</sup> As one side is for air supply and one side is for exhaust, use the air supply spacer or exhaust spacer when operating valves simultaneously.

<sup>\*</sup> As one side is for air supply and one side is for exhaust, partition block and partition plug cannot be used.

<sup>\*</sup> No right side (R) specification when wiring block T7EN (EtherNet/IP).