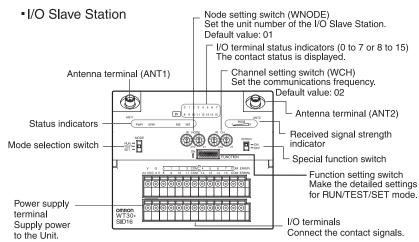
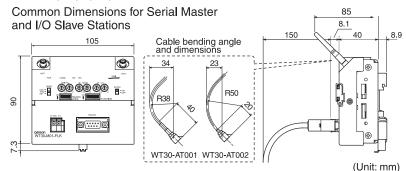


Connect the PLC, personal computer, etc.



Dimensions



■ Display

Indicator	Color	Status	Meaning (primary error)				
PWR Green		Lit	Power is being supplied.				
		Not lit	Power is not being supplied.				
ERR	Red	Lit	Error output ON: Wireless device error or wireless communications error.				
(I/O Slave Station)		Not lit	Error output OFF				
COMM (Master	Yellow	Lit	Serial communications in progress.				
Station)		Not lit	No serial communications.				
0 to 15 (I/O Slave Station)	Yellow	Lit/ Not lit	ON/OFF status for input or output signals				
RSSI	Yellow/ All not lit ir		Received Signal Strength Indicator monitor: Number of indicators lit (received signal strength 1 to 9) Received signal strength less than 0 to 1.				
MS	Green Lit		Communications are normal.				
(Module Status)		Flashing	TEST mode or SET mode has been activated.				
Status)	Red	Lit	A fatal error has occurred that cannot be recovered from. Replace the WT30 Terminal.				
		Flashing	A non-fatal error has occurred that can be recovered from by resetting the system.				
		Not lit	Power is not being supplied or the system is resetting.				
WS	Green	Lit	The station has joined the wireless network.				
(Wireless Status)		Flashing	Permission to join wireless network received from Serial Master Station (Slave Stations)				
Giaias)	Red	Lit	A fatal error has occurred that cannot be recovered from.				
		Flashing	Error from which recovery is possible.				
		Not lit	Wireless communications are not in progress.				

Function Setting Switch

Serial Master Station

	Applicable mode	ON functions	OFF functions
1	RUN mode	Holds I/O status data when a communications error occurs.	Clears I/O status data when a communications error occurs.
2		Enables scan list	Disables scan list
3		Relays used	Relays not used
4	TEST mode	Signal strength monitor disabled	Signal strength monitor enabled
5		All channels automatically selected	Specified channel selected
6			
7	SET mode	Scan list recognition	Nothing done
8		Registers specified I/O Slave	Registers all I/O Slaves automatically
9		Recognizes serial numbers (See note.)	Ignores serial numbers
10	Not used		

Note: The serial number refers to the product's unique number.

I/O Slava Station

	• I/O Slave Station							
	No.	Applicable mode	ON functions	OFF functions				
	1	RUN mode	Holds I/O status data when a communications error occurs.	Clears I/O status data when a communications error occurs.				
	2		Input hold	Normal mode				
.	3		Input filter: 100 ms	Input filter: 10 ms				
	4	TEST mode	Signal strength monitor disabled	Signal strength monitor enabled				
	5		All channels automatically selected	Specified channel selected				
	6		Installation test function	Nothing done				
	7 to 10	Not used						

Serial Communications Setting Switch

No.	Function	ON	OFF
1	Communications setting selection	Detailed settings (settings for No. 2 to 8 used)	Default settings (baud rate: 9,600 bps; data length: 7 bits; parity: even; stop bits: 2) Settings for No. 2 to 8 are ignored.
2	Baud rate (bps) (See note.) Total value = 0: 1,200 = 1: 2,400	1	Ô
3	= 2: 4,800 = 3: 9,600 = 4:19,200	2	0
4	= 5: 38,400 = 6: 57,600 = 7: 115,200	4	0
5	Data length	8 bits	7 bits
6	Parity	None	Yes
7		Odd	Even
8	Stop bits	1 bit	2 bits

Note: For example, if pins number 2, 3, and 4 are all ON, the total is 7, which corresponds to a baud rate of 115,200 bps.

Received Signal Strength Indicator

				a.c.	ICHOW	maice	2101	Circ	ziijiiiu	icator	
Fie	Field strength		<			Med	dium			S	trong
Nu	Number of levels		1	2	3	4	5	6	7	8	9
RU	RUN mode		Unstable communications range					Stable communications range			
TE	ST mode										
	Field strength monitor		n which channel sed.	Range in which specified channel cannot be used.			ot				
	Installation/ confirmation test		able c	ommu	inicatio	ons	Stab		nmuni	cation	S

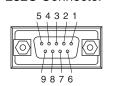
The received signal strength is indicated using 10 levels. Check the communications status, referring to the field strength level.

Frequency Table

СН	WCH:	setting	etting Center frequency		WCH	setting	Center frequency
СП	x 10	x 1	(MHz)	СН	x 10	x 1	(MHz)
				51	5	1	2402.2
2	0	2	2403.4	52	5	2	2404.6
3	0	3	2405.8	53	5	3	2407.0
4	0	4	2408.2	54	5	4	2409.4
5	0	5	2410.6	55	5	5	2411.8
6	0	6	2413.0	56	5	6	2414.2
							·]
				٠			
32	3	2	2475.4	82	8	2	2476.6
33	3	3	2477.8	83	8	3	2479.0
34	3	4	2480.2				

Channels 0, 1, 35 to 50 and 84 to 99 cannot be set. Channels 51 cannot be used in China.

• RS-232C Connector



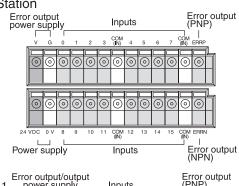
Pin No.	Signal	I/O direction
1		
2	RD	Output
3	SD	Inpút
4		
5	SG	
6		
7		
8		
9		

D-sub, 9-pin, Female End at WT30

I/O Characteristics

· I/O Slave Station

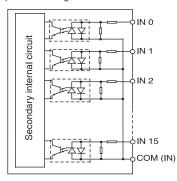
WT30-SID16



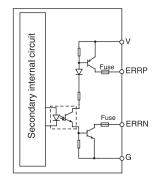
	Power si	upply		I	nputs			Erro (NP	or outp 'N)
WT30-SMD16 WT30-SMD16-1	Error out	tput/out r supply	put /		puts			(PNF □	outpu)
	V	G 0	1 2	3 (OM IN) 4	5	6 7	COM (IN) ERF	(P
	0	000	90	0	00	0	90	00	
			_				┰		記
	0	000	90	0	90	0	90	00	T I
	24 VDC	0 V 0 1	1 2	3 (C	OM 4	5	6 7	COM ERF	iN
	Power s	upply		Out	tputs			Erro	r outp

		(INFIN)				
[₀	Item	Specifications				
Characteristics	Input voltage	24 VDC				
l isi	Allowable voltage range	20.4 to 26.4 VDC				
Š	Input impedance	4.7 kΩ (typical)				
lar.	Input current	5 mA (typical)				
t C	ON voltage/current characteristics	17.4 VDC, 3.0 mA min.				
Input	OFF voltage/current characteristics	5.0 VDC, 1.0 mA max.				
	Input filter	10 ms/100 ms (Depends on the software used. Selected using switch.)				
Ħ	Input voltage	24 VDC				
Output	Allowable voltage range	20.4 to 26.4 VDC				
Output/Error Or Characteristics	Max. switching current	100 mA max. per output (at 20.4 to 26.4 VDC) Simultaneous usage of error output NPN/PNP is not possible.				
原資	Leakage current	0.1 mA max.				
ig Si	Residual voltage	1.0 V max.				
Charle	Fuse	One for every two outputs except for error output circuits, which have one for every NPN/PNP output. (No fuses can be replaced by the user.)				

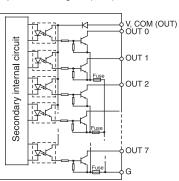
Input Circuit Diagram



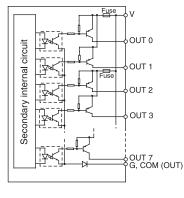
Error Output Circuit Diagram



Output Circuit Diagram (NPN)

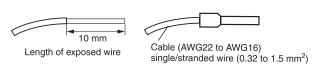


Output Circuit Diagram (PNP)

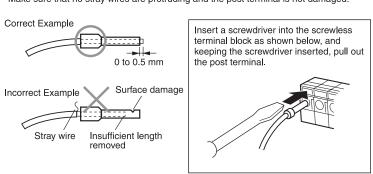


Wiring Precautions

- Wire the signal lines separately from power lines to prevent noise interference.
- Do not lay wiring close to the antenna.
- Turn OFF the power before performing any wiring.
- Wire the terminals using the following post terminals and cables.



· Use a tool of the appropriate size to crimp the post terminal. Make an incision in the cable and remove the covering so that the cable is either the same length as or approximately 0.5 mm longer than the post terminal, as shown in the following diagram. Make sure that no stray wires are protruding and the post terminal is not damaged.



Attaching Terminal Labels (I/O Slaves Only)

Attach terminal labels to the positions shown in the following diagram



Dust-proof Label Remove the dust-proof label after completing wiring.

■ EC DECLARATION OF CONFORMITY

We hereby declare that the following product is in conformity with the requirements of the

Contact Address

(North America) OMRON ELECTRONICS LLC (OEI) Phone: 1-847-843-7900 or 1-800-55-OMRON

OMRON Europe B.V. (OEE) Phone: 31-2356-81-300