Modular Conversion Receiver R-CM

Radio Receiver for Wireless Torque Wrench & Driver Prevents missed tightening



- Interchangeable modules allows for easy upgrades from basic wireless signal to torque data transfer system
- Quick connect system makes it simple to pair receiver with torque wrenches
- T-FHM transmitter and R-CM+M-FH receiver feature longer distance communication with dual antennas and battery monitoring functions

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R-CM

Features



R-CM receiver with M-FH

Applicable Interchangeable Radio Modules and wireless products

modules are introduced.

M-FH Module for FH Series

Upon reaching set torque, transfer tightening completion signal and ID to receiver. It helps to prevent missed tightening caused by human error.

M-FH module has two different setting mode.

M-FH mode: Long range communication mode

R-FH mode: Previous FH series compatible mode

FHW has built in double tightening prevention mechanism in the wrench and the transmitter.

M-FH: Advanced Wireless Counting Pokayoke 5-420N·m * Upon request 5-280N·m * Should be set at CSPFHW25N3X10D w/SH-N* M-FH mode R-FH: Previous FH series Wireless Counting Pokayoke RTDFH 20-500cN·m **RNTDFH** 40-500cN·m QLFHP-MH/CLFHP-MH 0.4-15N·m QLFHP/CLFHP 2-15N·m PQLFHP/PCLFHP 1-15N·m QSPFHP/CSPFHP 0.3-12N·m CSPFHP3N4X8D w/QH **SPFHP** 0.4-8N·m QSPFHP6N4 **RSPFHP** 2-9N·m **QSPCAFHP** 2-12N·m QSPCAFH 10-30N·m QSPCAFHP12N QSPFH/CSPFH QLFH/CLFH 5-420N·m Upon request **POLFH** OSDI SEONS **PCLFH** 5-200N·m w/ T-FHSLS256 SPFH 3.5-310N·m 4-310N·m QSPFH50N3 **RSPFH**

M-FD Module for FHD/FD/FDD series

Transfer actual applied torque data and ID for enhancing quality control. FDD added double tightening detection function.



M-BLA/BLE Module for Solar Powered Series

Transfer tightening completion signal.

The power is generated by the solar panel on the transmitter.



Advantage of R-CM+M-FH with T-FHM transmitter

New T-FH/T-FHM Transmitter



T-FH/T-FHM



T-FH256MC

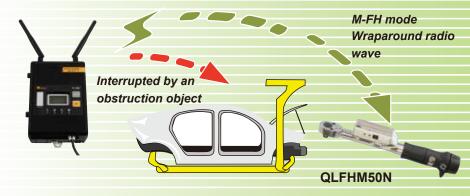


New T-FH/T-FHM



SB-FH2

Setting Box for New T-FH/T-FHM and existing FH series and FHD/FD/FDD. Setting software is available



Difference of T-FH/T-FHM transmitter

T-FH: Compatible with previous FH series, it is set at R-FH mode as default.

T-FHM: For using advanced functions:
wraparound radio wave and battery level alert
M-FH mode as default.

- * SB-FH2 setting box is required to change M-FH / R-FH mode.
- To use T-FH/T-FHM or R-CM together with previous FH series such as
 T-FH256MC/T-FHSLS256/T-FHP/RTDFH/RNTDFH transmitter or the
 receiver R-FH256, should be set at R-FH mode.

Battery Alert

For T-FHM at M-FH mode

Outputs residual voltage value of T-FHM to R-CM. R-CM alerts when the voltage drops.

Quick Pairing

※ For previous T-FH256MC and T-FH/T-FHM

Easily exchange modules

Remote Setting

Not for M-FD, M-BLA/BLE

Changeable Group channel, ID and Judgment code remotely. Convenient when hardware is installed out of reach.

Count Checker function

Not for M-FD



eg. Count 4 03, 02, 01 -



R-CM receiver has count checker function and it is available for the wrench set in Output 1.

Counting of the number of tightenings (1-99) is possible for the wrench output 1.

Optional Extension devices



IO-CM

Expands 4 relay outputs, thus R-CM can be managed up to 8 relay outputs.

IO-CM

BZ-CM

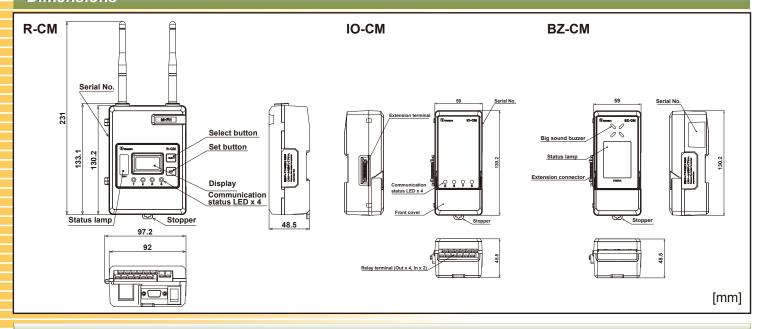
External loud volume buzzer and large lamp

Part No.1070, 280mm of DIN EN50022-35x7.5 rail and stoppers set come with R-CM receiver as standard accessory.
BZ-CM





Dimensions



Specifications

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Model		Receiver	Setting Box	Interchangeable Module			
Wiode	'	R-CM	SB-FH2	M-FH	M-FD	M-BLA	M-BLE
Frequency			2.402GHz-2.479GHz		902.875MHz	868.3MHz	
Communica	tion	Depend on the mounted module	Spread spectrum (FHSS)			-	
Modulation			GFSK			FSK	
Group chan	nel		256 (000-255)			-	
ID			3-digits (000-999), 7-digits (alphanumeric) *3		8 Digits fixed, not selectable *3		
Input, Outpu	ıt	Relayx4, RS232C	RS232C	-		-	
Input		LS signal, Reset		-		-	
Power suppl	ly	DC24V	DC9V alkaline x 1	-		-	
Antenna		Depend on the	Dipole antenna	Diversity antenna		Dipole antenna	
Distance		mounted module	M-FH mode: 10 to 30 m, R-FH mode 10 to 20 m*1*2			10 to 20 m* ¹	
Temperature	e in use	0 - 50°C					
Weight (kg)		0.24	0.92	0.047	0.036	0.036	0.035
Applicable Transmitter		Depend on the mounted module	RTD/RNTDFH, FHP, FHSLS256, T-FH256MC, T-FH/T-FHM*2, FHW,T-FD	RTD/RNTDFH, FHP,FHSLS256, T-FH256MC, FHW, T-FH/T-FHM*1*2	T-FD	T-BLA	T-BLE

Note *1 Transmitting/receiving distance varies depending on surrounding radio environment.

- *2 M-FH mode is available for the newly updated T-FH/T-FHM transmitter which has white antenna cover.

 The previous transmitter, black antenna cover type has R-FH mode only.
- *3 Multiple wrenches can connect to one receiver as long as they do not signal at the exact same time.
- Contact Tohnichi for conditions of wireless certification acquisition for each country.
- An Ethernet terminal can be attached as an option for R-CM.

Optional Accessories

IO-CM: Extension relay output box. Part No.1070: DIN rail 280mm with stoppers FHM-PCV: Protection cover for BZ-CM: Loud buzzer with large lamp BA-8R: 100-240V AC adapter T-FH/T-FHM transmitter



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