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



Applicable Interchangeable Radio Modules and wireless products

introduced.

M-FH Module for FH Series Upon reachin

R-CM receiver with M-FH

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 F 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 QLFHM50N * 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 RTDFH120CN w/Bit QLFHP/CLFHP 2-15N·m PQLFHP/PCLFHP 1-15N·m 0.3-12N·m 0.4-8N·m QSPFHP/CSPFHP CSPFHP3N4X8D w/QH QSPFHP6N4 **SPFHP** RSPFHP QSPCAFHP 2-9N·m 2-12N·m QSPCAFH QSPCAFHP12N 10-30N·m QSPFH/CSPFH QLFH/CLFH 5-420N·m Upon request **PQLFH** OSPI SEONS **PCLFH** 5-200N·m w/ T-FHSLS256 SPFH 3.5-310N·m 4-310N·m QSPFH50N3 **RSPFH**

0..... M-50

M-FD Module for FHD/FD/FDD series

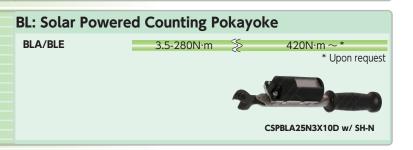
Transfer actual applied torque data and ID for enhancing quality control. FDD added double tightening detection function.

FHD/FD/FDD: Wireless Data Transfer Wrench FHD/FD/FDD 2-280N·m * Upon request FD/FDD CSPFHD50N3X12D w/QH CSPFDD25N3X10D w/QH

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-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

Interrupted by an obstruction object

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.

- 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-FH 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

M-FH mode Wraparound radio

QLFHM50N

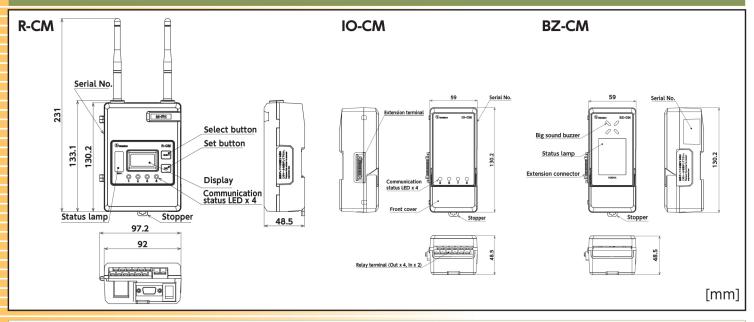
BZ-CM

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.



Dimensions



Specifications

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	Model	Receiver	Setting Box	Interchangeable Module			
-		R-CM	SB-FH2	M-FH	M-FD	M-BLA	M-BLE
	Frequency		2.402GHz-2.479GHz		902.875Hz	868.3Hz	
	Communication	D	Spread spectrum (FHSS)			-	
	Nodulation	Depend on the mounted module	GFSK			FSK	
	Group channel		256 (000-255)			-	
	ID		3-digits (000-999), 7-digits (alphanumeric) *3		8 Digits fixed, not selectable *3	
	Input, Output	Relayx4, RS232C LS signal, Reset	RS232C	-		-	
1	Input			-		-	
	Power supply	DC24V	DC9V alkaline x 1	-		-	
	Antenna	Depend on the mounted module	Dipole antenna	Diversity antenna		Dipole antenna	
	Distance		M-FH mode: 10 to 30 m, R-FH mode 10 to 20 m*1*2		10 to 20 m* ¹		
	Temperature in use	0 - 50℃					
	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.

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IO-CM: Extension relay output box. BZ-CM: Loud buzzer with large lamp

Part No.1070: DIN rail 280mm with stoppers

BA-8R: 100-240V AC adapter

FHM-PCV: Protection cover for T-FH/T-FHM transmitter

You Tube

Promotional videos are available on YouTube. Visit Tohnichi TV! https://www.youtube.com/c/TohnichiTV



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