

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

FC CE RoHS

Features



Interchangeable module
built-in position



Possible to use with a variety of existing wireless torque wrenches and easily upgrade as new product modules are introduced.

R-CM receiver with M-FH

Applicable Interchangeable Radio Modules and wireless products

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 F series compatible mode

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

M-FH: Advanced Wireless Counting Pokayoke

T-FHM	5-420N·m	420N·m ~ *
QLFHM50N		* Upon request
FHW	5-280N·m	* Should be set at M-FH mode
CSPFHW25N3X10D w/SH-N*		

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	RNTDFH500CN w/Bit
QLFHP/CLFHP	2-15N·m		
PQLFHP/PCLFHP	1-15N·m		
QSPFHP/CSPFHP	0.3-12N·m		
SPFHP	0.4-8N·m	QSPFHP6N4	CSPFHP3N4X8D w/QH
RSPFHP	2-9N·m		
QSPCAFP	2-12N·m		
QSPCAFHP			QSPCAFHP12N
QSPFH/CSPFH	10-30N·m		
QLFH/CLFH	5-420N·m		420N·m ~ *
PQLFH			* Upon request
PCLFH	5-200N·m		
SPFH	3.5-310N·m		
RSPFH	4-310N·m		
QSPFH50N3			

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	280N·m ~ *
		* Upon request

FHD		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.

BL: Solar Powered Counting Pokayoke

BLA/BLE	3.5-280N·m	420N·m ~ *
		* Upon request



CSPBLA25N3X10D w/ SH-N

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

New T-FH/T-FHM Transmitter



T-FH/T-FHM



Previous
T-FH256MC

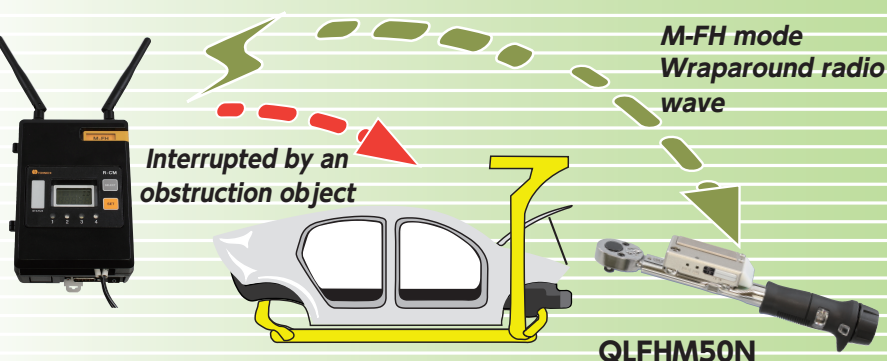


New
T-FH/T-FHM



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-FHSL256/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



BZ-CM

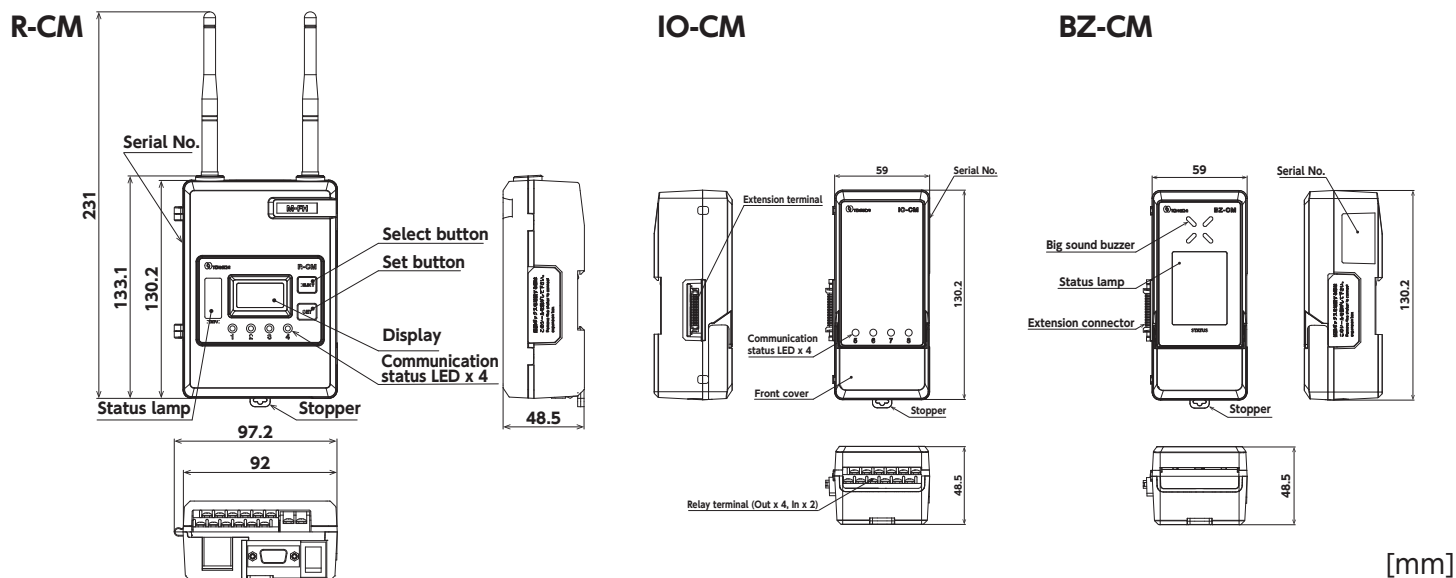
External loud volume buzzer and large lamp

- ※ 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

Model	Receiver	Setting Box	Interchangeable Module			
	R-CM	SB-FH2	M-FH	M-FD	M-BLA	M-BLE
Frequency	Depend on the mounted module	2.402GHz-2.479GHz			902.875Hz	868.3Hz
Communication		Spread spectrum (FHSS)			-	
Modulation		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	RS232C	-		-	
Input	LS signal, Reset		-		-	
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.

Optional Accessories

IO-CM: Extension relay output box.

Part No.1070: DIN rail 280mm with stoppers

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

BZ-CM: Loud buzzer with large lamp

BA-8R: 100-240V AC adapter



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TOHNICHI MFG CO., LTD.
 URL <http://www.global-tohnichi.com>
 E-mail overseas@tohnichi.co.jp
 N.V. TOHNICHI EUROPE S.A.
 E-mail europe@tohnichi.com
 TOHNICHI AMERICA CORP.
 URL <http://www.tohnichi.com>
 E-mail inquiry@tohnichi.com
 TOHNICHI SHANGHAI MFG. CO., LTD.
 URL <http://www.tohnichi-sh.com>
 E-mail sales@tohnichi-sh.com