

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

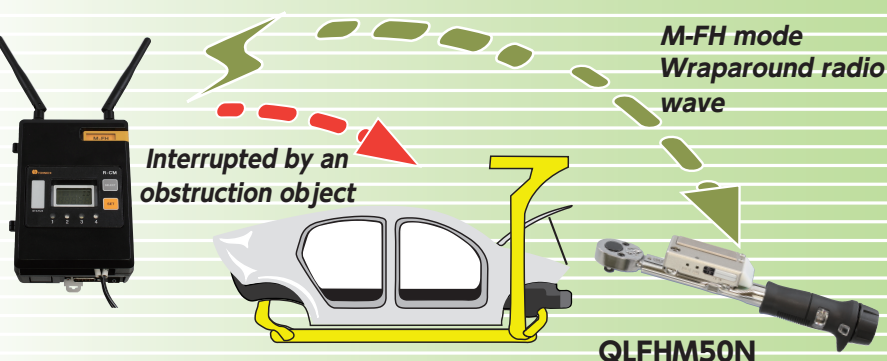


New
T-FH/T-FHM



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

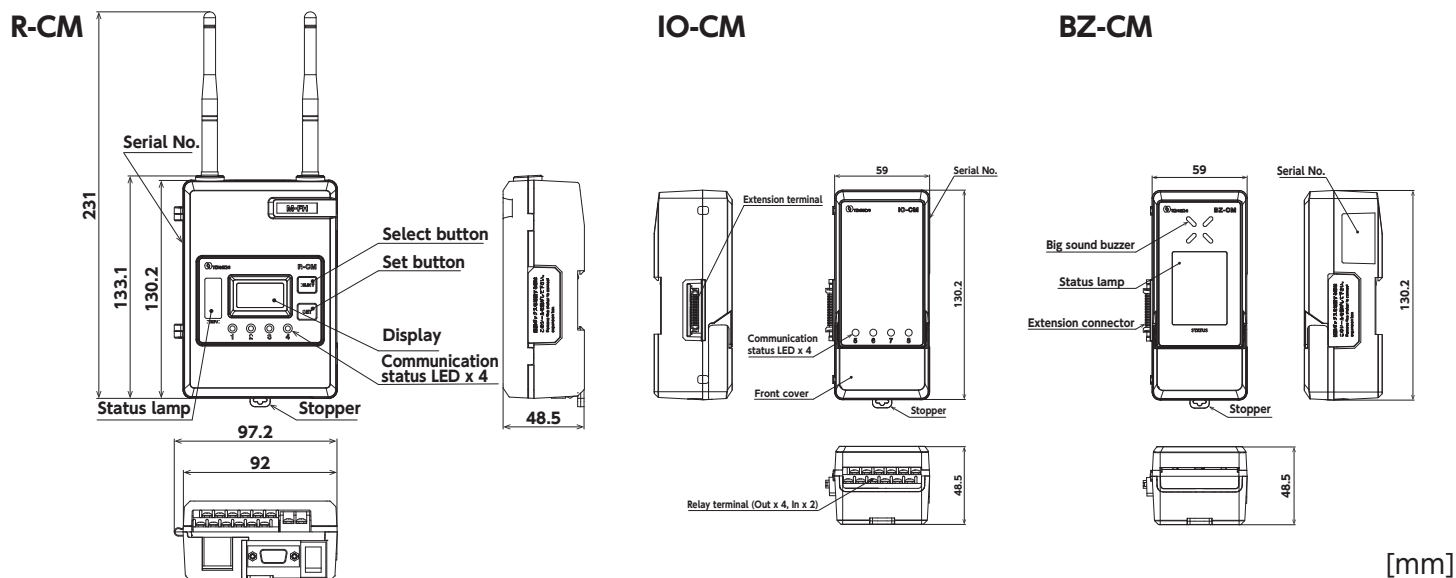
External loud volume buzzer and large lamp

- ※ 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

BZ-CM: Loud buzzer with large lamp

BA-8R: 100-240V AC adapter

T-FH/T-FHM transmitter



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

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