

Check Pen S

Lineup

In combination with the Pokayoke Tools TW-800 series receiver, the Check Pen S prevents omission of marking work using a pen or self-inking stamp in the production process. It is compatible for use with a variety of commercially available pens and self-inking stamps.



Prevention of cracks in pipes:

adopted a material that rarely cracks due to ink adhesion.

Switch damage prevention:

adopted a mechanism that hardly damages the switch after 1 million uses (in-house study).

High sealing performance:

adopted a switch with high sealing performance (environment resistance) to prevent foreign matter such as dust and ink from entering the switch.

Strap attachment:

a strap can be attached to prevent dropping during work.



Built-in Wireless Module HRF-2402

Battery level notification:

an LED light notifies when the remaining battery level is less than 10%.

Using the production process support software for Pokayoke Tools "POKAYOKE plus", you can accurately know the time to replace the battery on the software screen.



Improved battery holder:

adopted a mechanism to firmly hold the coin battery (CR2032)

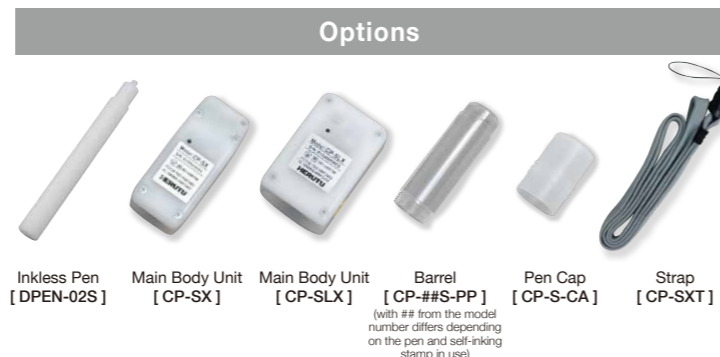
The Check Pen S is compatible with various commercially available pens and self-inking stamps.

Model	Type	Part Number	Manufactures	Country	Main Body Unit	Barrel	Pen Cap
CP-02SX	Pen	PX-20	Mitsubishi Pencil	Japan	CP-SX	CP-02S-PP	CP-S-CA
		M-20PM	Pilot Corporation				
		MMP-20	Pentel				
		Inkless Pen DPEN-02S	Heruru Electronics				
CP-05SX	Pen	Camlin Paint Marker EK-400XF	Kokuyo Camlin	India	CP-SX	CP-05S-PP	Please use the originally supplied pen cap.
		PAINT MARKER No.CP Artline70	Snowman	Indonesia			
		PX-21	Mitsubishi Pencil	Japan			
CP-09SX	Pen	H-DM	Tombow	Japan	CP-SX	CP-09S-PP	-
CP-11SX	Pen	K-177N	Shachihata	Japan	CP-SX	CP-11S-PP	CP-S-CA
CP-26SX	Self-inking Stamp	X-BKL	Shachihata	Japan	CP-SX	CP-26S-PP	CP-S-CA
CP-70SX	Pen	Skill Writer III	Shinwa	Japan	CP-SLX	CP-70S-PP	Please use the originally supplied pen cap.
CP-71SX	Self-inking Stamp	TAT Stamper F11 XQT-11C	Shachihata	Japan	CP-SLX	CP-71S-PP	Please use the originally supplied self-inking stamp cap.
CP-72SX	Pen	Steel Paint NEO	Alton	Japan	CP-SLX	CP-72S-PP	Please use the originally supplied pen cap.
CP-81SX	Self-inking Stamp	Name Stamp XL-11	Shachihata	Japan	CP-SLX	CP-81S-PP	Please use the originally supplied self-inking stamp cap.

Note: The Check Pen S includes main body unit, barrel, and pen cap (applicable model only). Pens and self-inking stamps not on the list are also supported. Please feel free to contact us.

Specifications

Comm. Distance	30 m / 33 yd (depends on usage conditions)
Battery Life	300,000 Uses (depends on usage conditions)
Available Countries	Japan / Canada / USA / Mexico / China / Thailand / Vietnam / Philippines / India
Input	1 Test Switch
Display	Communication Status and Time to Replace the Battery Notification LED (Green / Red)
Power Source	1 Coin Battery (CR2032)
Frequency Band	2,403 MHz-2,478 MHz (automatic free channel selection by a frequency hopping function)
Antenna	Chip Antenna
Accessory	1 Coin Battery (CR2032) Note: The Check Pen S includes main body unit, barrel, and pen cap (applicable model only). Pen and self-inking stamp are not included.
Options	The available options may differ depending on the model. Please refer to the 'Options' section on the right and contact us for details.



HERUTU

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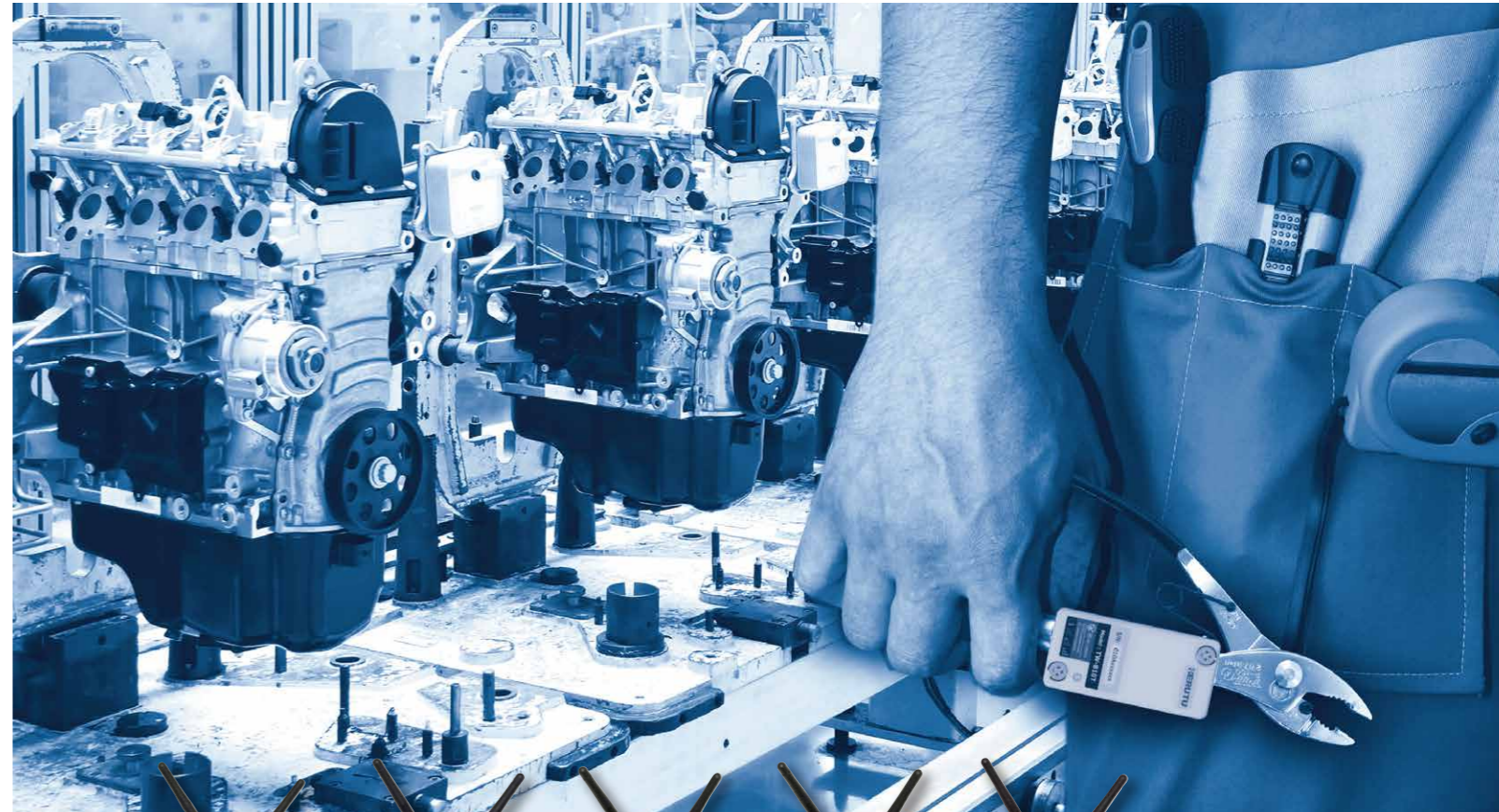
Please contact your nearest distributor.

20220410P

POKAYOKE TOOLS



TW-800 Series



TW-800R



TW-800R-EXP



TW-800R-EXS



TW-800R-EXL



TW-800R-EXB



TW-800R-SLNX



TW-800R-EXC



TW-800R-SC



TW-800R-SCL

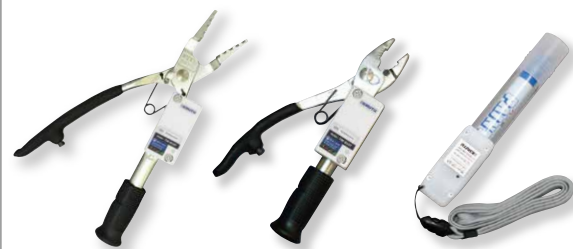
HERUTU

POKAYOKE
ポカヨケ

Helping Operators "Mistake-Proofing" (Pokayoke)

These products help operators "mistake-proofing" (pokayoke) in the production processes when using tools such as torque wrenches, pliers wrenches, and power tools.

Tools (with Pokayoke transmitters)



Herutu Electronics Original Products



Products from Tool Manufacturers

Comm. Distance
Approx. 30-50 m
(98-164 ft) Indoors
(may vary depending on usage conditions)

A tool (transmitter) and a receiver can be easily paired for use.

Pokayoke Receivers



We have an extensive lineup of receivers with various interfaces. You can choose according to your network environment.

- I/O relay output
- RS-232C serial output
- LAN connection
- CC-Link IE Field Basic support
- Count display



Pokayoke-compatible Tools Lineup



Please feel free to contact us if you are considering making your tools Pokayoke-compatible.

QR code for the latest Pokayoke-compatible tools on web page

QR code for examples of custom products for Pokayoke-compatible tools on web page

QR code for Pokayoke-compatible tools on YouTube

POKAYOKE plus

Ensuring Traceability of Tasks
Production Process Support Software for Pokayoke Tools

When used in combination with a LAN-connectable Pokayoke receiver, this Windows application helps customers ensure the traceability of "working with tools" for workers in factories.



Task Count Management with Pokayoke-compatible Tools

Ensuring Traceability and Grasping Tasks in Real-Time

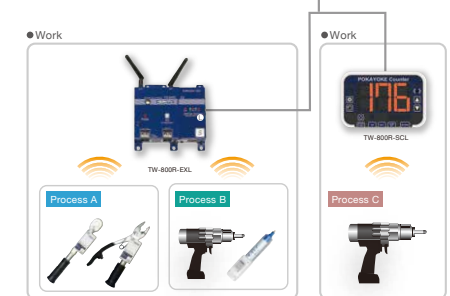
Work Status Notification for Remote Staffs and Manufacturing Sites

Functional Overview

Ensuring Traceability of Tasks

Customers can log and save task results for each work type through the TW-800R-SCL or TW-800R-EXL installed in multiple processes.

"Work" refers to the content of tasks using one or more tools. For example, the content of a work type would be registered as "tasks done 10 times with a cordless power tool, 3 times with the Check Pen S, and 1 time with an approval stamp."



- Task Results
- Work Title
 - Start Date and Time of Task
 - End Date and Time of Task
 - JUDGE Result
 - Cause of FAIL, etc.

Since the system can grasp in real-time the status of task results for each work type done or where a "FAIL" occurs, customers can take prompt action to address a process where a mistake has occurred.

Battery Level Notification

Since each tool's software screen displays the Pokayoke transmitter's battery level, operators can easily see when it is time to replace the battery.



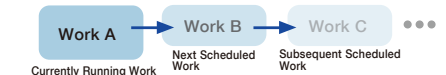
Enabling Mistake-Proofing (Pokayoke) for Covering Multiple Processes

By linking the "POKAYOKE plus" to the TW-800R-SCL installed for multiple processes, customers can set work execution instructions, counting the number of tasks upwards, etc.



Since customers can register the TW-800R-SCL installed at up to 8 stations for 1 work type, the system can mistake-proof (pokayoke) for tasks that use up to 8 tools. You can register an unlimited number of work types.

You can reserve executions for up to 8 work types as shown below.

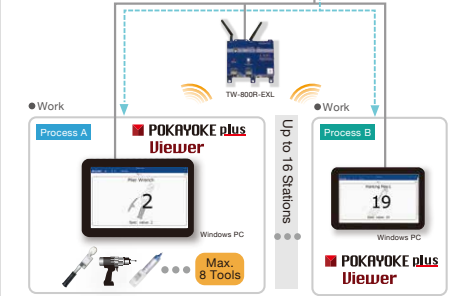


POKAYOKE plus Specifications and Operating Environment

Supported OS	Windows 8.1 or later to Windows 10 32-bit / 64-bit
CPU	Intel® Core™ 2.3GHz or above
Required Memory	4GB or above
Resolution	1366 x 768 (FWXGA) or above
HDD	Free space of 1GB or above, excluding data / log
Supported Languages	Japanese / English

Counter Feature on Computer (POKAYOKE plus Viewer)

By linking the software with the TW-800R-EXL, customers can mistake-proof (pokayoke) at up to 16 stations by placing a Windows computer with the "POKAYOKE plus Viewer" at a work site.







Since up to 8 tools can be registered for 1 work type, the system can mistake-proof (pokayoke) for tasks that use up to 8 tools. An unlimited number of work types can be registered.

The "POKAYOKE plus Viewer" operates according to work execution instructions received from the "POKAYOKE plus", and the viewer software screen displays information such as task details of work, task count, JUDGE results, and battery level, etc.

POKAYOKE plus Viewer Specifications and Operating Environment

Supported OS	Windows 8.1 or later to Windows 10 32-bit/64-bit
CPU	Intel Atom™ x5-28350 1.44GHz or above
Required Memory	4GB or above
Resolution	1280 x 800 (WXGA) or above
HDD	Free space of 1GB or above, excluding data / log
Supported Languages	Japanese / English

Pokayoke Transmitters Lineup

				
	Pokayoke Slim Transmitter TW-810T	Pokayoke Compact Transmitter TW-850T	Pokayoke Transmitter TW-800T	Pokayoke Wireless Unit HCP-2402T-MC
Supported Tools	Pliers wrenches, torque wrenches and more	Cable tie guns, hand pumps, self-inking stamps, electric screwdrivers and more	Pliers wrenches, torque wrenches and more	Makita impact wrenches, impact drivers, screwdrivers and more (*1)
External Dimensions (W x H x D)	32 x 66 x 10 mm (1.3 x 2.6 x 0.4") (excluding protrusions)	28 x 55 x 12 mm (1.1 x 2.2 x 0.5") (excluding protrusions)	34 x 71 x 17.5 mm (1.3 x 2.8 x 0.7") (excluding protrusions)	20 x 30 x 6.4 mm (0.8 x 1.2 x 0.3")
Comm. Distance	50 m (55 yd) (depends on usage conditions)	30 m (33 yd) (depends on usage conditions)		
Battery Life	900,000 Uses (depends on usage conditions)	300,000 Uses (depends on usage conditions)		-
Available Countries	Japan / Canada / USA / China / Thailand / Vietnam / India	Japan / Canada / USA / Mexico / China / Thailand / Vietnam / Philippines / India	Japan / Canada / USA / Mexico / China / Taiwan / Thailand / Vietnam / Malaysia / Philippines / Indonesia / India	Japan / Canada / USA / Mexico / China / Thailand / Vietnam / Philippines / India
Input	1 Non-voltage Contact Signal			
Display	Communication Status Notification LED (Green / Yellow / Red) Time to Replace the Battery Notification LED (Orange)	Communication Result and Time to Replace the Battery Notification LED (Green / Red)		
Power Source	1 Coin Battery (CR2032)		DC 2.2-6.0 V	
Weight	About 21g (0.74 oz)	About 25g (0.88 oz)	About 40g (1.41 oz)	About 2.5g (0.09 oz)
Frequency Band	2,403 MHz-2,478 MHz (automatic free channel selection by a frequency hopping function)			
Antenna	Inverted-F Metal Plate Antenna	Chip Antenna	PCB Antenna	Chip Antenna
Accessories	1 Wire Harness Connector with Micro Limit Switch [TW810T-HCL] 1 Coin Battery (CR2032)	1 Connector Cable for Connection [ZHR-2-200] 1 Coin Battery (CR2032)	1 Wire Harness Connector with Micro Limit Switch [TW800T-HCL] 1 Coin Battery (CR2032)	-
Options	Wire Harness Connector with Micro Limit Switch [TW810T-HCL] Pokayoke Slim Transmitter Protective Cover [TW-810C]	Connector Cable for Connection [ZHR-2-200]	Wire Harness Connector (w/o Micro Limit Switch) [TW800T-HC] Wire Harness Connector with Micro Limit Switch [TW800T-HCL] Pokayoke Transmitter Protective Cover [TW-510C-1] [TW-510C-2]	-

*1: For purchasing Makita impact drivers / impact wrenches / screwdrivers, please contact the person in charge of special procurement at Makita Co., Ltd. Email: tokuju_mkt@m1.makita.co.jp
Please also refer to "Customers who request high-precision torque management" in the product information page of Makita Co., Ltd. <https://www.makita.co.jp/product/index.html>

"Transmitting when Releasing a Hose Clamp" TW-810T-PLR / TW-800T-PLR



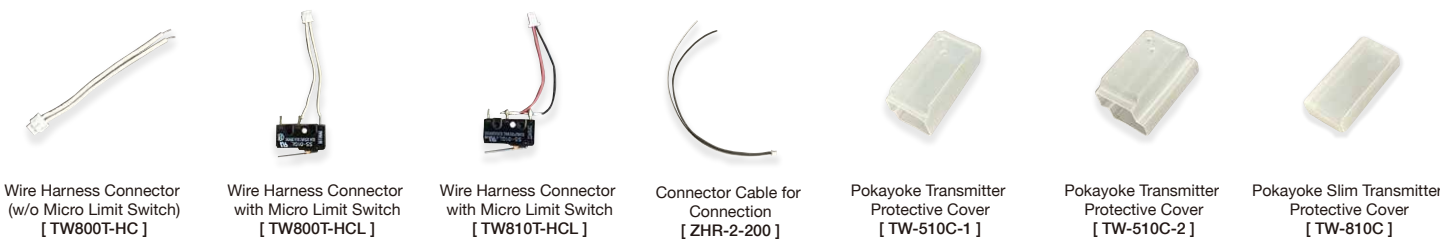
This transmitter can be used when "grasping a hose clamp with a pliers wrench, moving it to the specified position, and then transmitting when releasing". For details, please refer to "Transmission Timing" section of the "Pliers Wrench" page.

Pokayoke Wireless Module HRF-2402





















HRF-2402 is a wireless module equipped with various interfaces. By installing an interface board equipped with the necessary input and output capabilities, the module can be attached to various tools. The module is built into many tools such as the Check Pen S, and many products from other tool manufacturers. With the cooperation of a variety of tool manufacturers, we will help you to realize the "IoT Conversion" of your tools in use.

Options

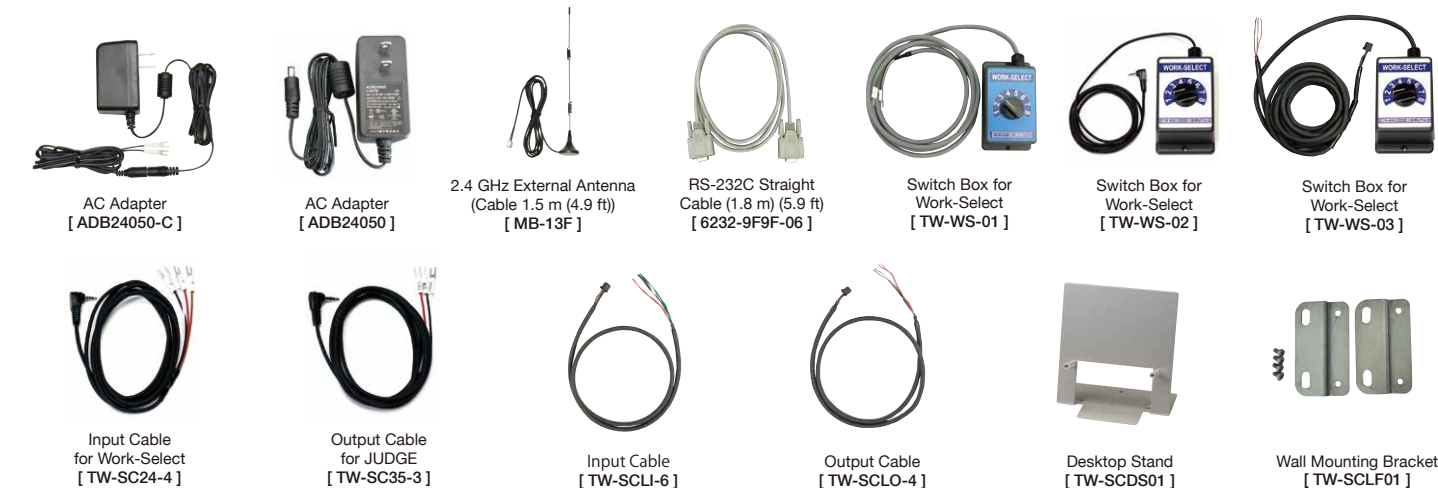


Wire Harness Connector (w/o Micro Limit Switch) [TW800T-HC] | Wire Harness Connector with Micro Limit Switch [TW800T-HCL] | Wire Harness Connector with Micro Limit Switch [TW810T-HCL] | Connector Cable for Connection [ZHR-2-200] | Pokayoke Transmitter Protective Cover [TW-510C-1] | Pokayoke Transmitter Protective Cover [TW-510C-2] | Pokayoke Slim Transmitter Protective Cover [TW-810C]

Pokayoke Receivers Lineup (without Counter Feature)







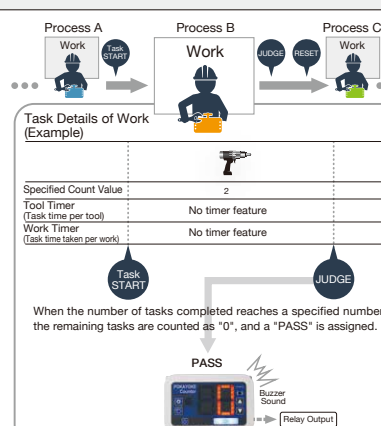
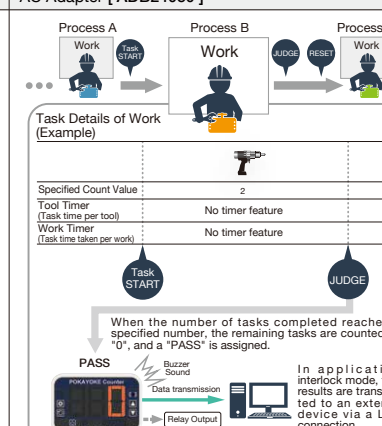
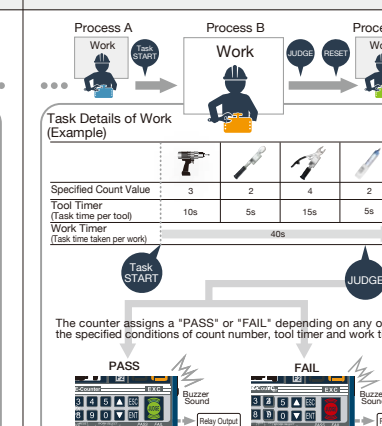
						
	1-Relay-Output Type TW-800R	4-Relay-Output Type TW-800R-EXP	RS232C Serial Output Type TW-800R-EXS	LAN Connection Type TW-800R-EXL	CC-Link IE Field Basic Support TW-800R-EXB	LAN Connection Type TW-800R-SLNX
	 	 	 	 	 	  
Output(s)	1 Relay Output (Terminal Block M3) Rated Load AC/DC 30 V / 0.5 A	4 Relay Outputs (Terminal Block M3) Rated Load AC/DC 30 V / 0.5 A	1 Relay Output (Terminal Block M3) Rated Load AC/DC 30 V / 0.5 A		2 Power Transistor Outputs Rated Load DC 24 V / 0.1 A Connector 2.5 mm (0.098") Pitch 4-Position 2-Row (1 Position Unused)	
Interface	-		RS-232C	RJ-45 Ethernet 10BASE-T/100BASE-TX (Auto-Sensing) *POKAYOKE plus* Support	CC-Link IE Field Basic	RJ45 Ethernet 10BASE-T/100BASE-T, Full/Half Duplex
Available Countries	Japan / Canada / USA / Mexico / China / Taiwan / Thailand / Vietnam / Malaysia / Philippines / Indonesia / India					Japan / Canada / USA / China / Thailand
Display	1 RX LED (Green) (also as lighting switch for pairing) 1 Power LED (Red)	4 RX LEDs (Green) (also as lighting switch for pairing) 1 Power LED (Red)	1 RX LED (Green) (also as lighting switch for pairing) 1 Power LED (Red) 3 Comm. Monitor LEDs (Red) 2 Comm. Monitor LEDs (Green)	1 RX LED (Green) (also as lighting switch for pairing) 1 Power LED (Red)	1 RX LED (Green) (also as lighting switch for pairing) 1 Power LED (Red) 1 Comm. Monitor LED (Orange)	1 RX LED (Red / Blue / Green / Yellow) NW Status LED (Pale Blue) 2 Pairing LEDs (ID1&2) (Orange) 1 Power LED (Orange)
Switches	1 Power Switch 1 Switch (6-Position DIP) for Setting 1 Lighting Switch for Pairing		1 Power Switch 2 Switches (6-Position DIP each) for Setting 1 Lighting Switch for Pairing		4 Push Buttons: Setting (REG / UP / DOWN) / Reset	
Buzzer	Piezo Buzzer 95 dB (at 1 m (3.3'))					Piezo Buzzer 90 dB (at 0.1 m (0.3'))
External Dimensions (W x H x D)	80 x 100 x 30 mm (3.1 x 3.9 x 1.2") (excluding protrusions)	130 x 100 x 30 mm (5.1 x 3.9 x 1.2") (excluding protrusions)	150 x 100 x 30 mm (5.9 x 3.9 x 1.2") (excluding protrusions)		150 x 100 x 30 mm (5.9 x 3.9 x 1.2") (excluding protrusions)	
Power Source	DC 24 V ±20% (DC 19-28 V) (Terminal Block M3)					AC 100-240 V (using included AC adapter)
Current Consumption	60 mA or less	80 mA or less	90 mA or less	140 mA or less	150 mA or less	150 mA or less
Weight	Approx. 250 g (8.8 oz)	Approx. 430 g (15.2 oz)	Approx. 450 g (15.9 oz)	Approx. 500 g (17.6 oz)	Approx. 290 g (10.2 oz)	Approx. 290 g (10.2 oz)
Operating Environment	Temperature: 0-50 °C (32-122 °F) Humidity: 80% or less (without condensation)					Temperature: 0-50 °C (32-122 °F) Humidity: 85% or less (without condensation)
Frequency Band	2,403 MHz-2,478 MHz (automatic free channel selection by a frequency hopping function)					
Antenna	Dipole Antenna					Chip Antenna
Accessory	-					1 AC Adapter [ADB24050-C] 1 Output Cable [TW-SCLO-4]
Options	AC Adapter [ADB24050-C] 2.4 GHz External Antenna [MB-13F]	AC Adapter [ADB24050-C] 2.4 GHz External Antenna [MB-13F]	AC Adapter [ADB24050-C] RS-232C Straight Cable [6232-9F9F-06] 2.4 GHz External Antenna [MB-13F]	AC Adapter [ADB24050-C] 2.4 GHz External Antenna [MB-13F]	AC Adapter [ADB24050-C] 2.4 GHz External Antenna [MB-13F]	Wall Mounting Bracket [TW-SCLF01] Desktop Stand [TW-SCDS01] AC Adapter [ADB24050-C] Output Cable [TW-SCLO-4]

Options



AC Adapter [ADB24050-C] | AC Adapter [ADB24050] | 2.4 GHz External Antenna (Cable 1.5 m (4.9 ft)) [MB-13F] | RS-232C Straight Cable (1.8 m) (5.9 ft) [6232-9F9F-06] | Switch Box for Work-Select [TW-WS-01] | Switch Box for Work-Select [TW-WS-02] | Switch Box for Work-Select [TW-WS-03] | Input Cable for Work-Select [TW-SC24-4] | Output Cable for JUDGE [TW-SC35-3] | Input Cable [TW-SCLI-6] | Output Cable [TW-SCLO-4] | Desktop Stand [TW-SCDS01] | Wall Mounting Bracket [TW-SCLF01]

Pokayoke Receivers Lineup (with Counter Feature)

	 Simple Pokayoke Counter TW-800R-SC	 Simple Pokayoke Counter TW-800R-SCL	 Pokayoke Counter TW-800R-EXC
			
Count Display	7-SEG LED 2-Digit (W x H) 27 x 50 mm (1.1 x 2.0")/digit	7-SEG LED 3-Digit (W x H) 27 x 50 mm (1.1 x 2.0")/digit	7-SEG LED 2-Digit (W x H) 15 x 27 mm (0.6 x 1.1")/digit
Output(s)	2 Power Transistor Outputs (1 PASS / 1 FAIL) Rated Load DC 24 V / 0.1 A 3-segment Small Single-head Plug; Diameter 3.5 mm (0.14")	2 Power Transistor Outputs (1 PASS / 1 FAIL) Rated Load DC 24 V / 0.1 A Connector 2.5 mm (0.098") Pitch 4-Position 2-Row (1 Position Unused)	(At TW-800R) 1 Relay Output (Terminal Block M3) Rated Load AC/DC 30 V / 0.5 A (At counter unit) 2 Relay Outputs (Terminal Block M3) (1 PASS / 1 FAIL) Rated Load AC/DC 30 V / 0.5 A
Interface	-	RJ45 Ethernet 10BASE-T/100BASE-T, Full/Half Duplex "POKAYOKE plus" Compatible	-
Input(s)	3 Non-voltage Contact-inputs(for Work-Select) Very Small Single-head Plug; Diameter 2.5 mm (0.1")	5 Non-voltage Contact Inputs (1 JUDGE, 1 RESET, 3 Work-Select) Connector 2.5 mm (0.098") Pitch 6-Position 2-Row	6 Non-voltage Contact Inputs (1 SENSOR, 1 JUDGE, 1 RESET, 3 Work-Select)
Registrable Work Type Qty.	1 Type Note: Up to 8 work types can be registered by using the optional input cable for work-select.	1 Type Note: Up to 8 work types can be registered by using the optional input cable for work-select. The registrable number of work types is unlimited by linking with "POKAYOKE plus".	8 Types
Main Functions	JUDGE (Decremental Task Count) Reset Timer	Operation Mode (Stand-alone / App-interlock) Note: When using the TW-800R-SCL by itself, select "stand-alone mode." When using the TW-800R-SCL in combination with "POKAYOKE plus", select "app-interlock mode." JUDGE (Incremental/Decremental Task Count) Note: Incremental count can be used in app-interlock mode. Reset Timer Sequence (manageable order of tool usage), Work Execution Reservation, History Management of Task Results for Each Work Note: Available in app-interlock mode	JUDGE (Decremental Task Count / Tool Timer / Work Timer) Reset Timer Sequence (manageable order of tool usage) Selectable Language (Japanese / English)
Available Countries	Japan / Canada / USA	Japan / Canada / USA / Mexico / China / Thailand / Vietnam / Philippines / India	Japan / Canada / USA / Mexico / China / Taiwan / Thailand / Vietnam / Malaysia / Philippines / Indonesia / India
Display	JUDGE LED : Red/Blue/Yellow RX LED: Red/Blue/Yellow	JUDGE LED: Red/Blue/Green/White RX LED: Red/Blue/Green/Yellow/White NW Status LED: Light Blue	(TW-800R Main Body); RX LED : Green (also as lighting switch for pairing) Power LED: Red (Count Unit); JUDGE LED : Red/Blue/Yellow/Green
Switches	5 Touch Keys; POWER / REG. / RESET / ▲(UP) / ▼(DOWN)		1 Power Switch Keyboard 1 Switch (6-Position DIP) for Setting 16-Key: 0-9, ▲(UP), ▼(DOWN), ESC, ENT, F1, F2 1 Lighting Switch for Pairing
Buzzer	Piezo Buzzer 70 dB (at 0.1 m (3.9"))	Piezo Buzzer 90 dB (at 0.1 m (3.9"))	Piezo Buzzer 95 dB (at 1 m (3.3"))
External Dimensions (W x H x D)	150 x 100 x 30 mm (5.9 x 3.9 x 1.2") (excluding protrusions)		218 x 100 x 30 mm (8.6 x 3.9 x 1.2") (excluding protrusions)
Power Source	AC 100-240 V (using included AC adapter)		DC 24V±20% (DC 19-28 V) (Terminal Block M3)
Current Consumption	120 mA or less	200 mA or less	110 mA or less
Weight	Approx. 250 g (8.8 oz)	Approx. 290 g (10.2 oz)	Approx. 750 g (26.5 oz)
Operating Environment	Temperature: 0-50 °C (32-122 °F) Humidity: 80% or less (without condensation)		
Frequency Band	2,403 MHz-2,478 MHz (automatic free channel selection by a frequency hopping function)		
Antenna	Chip Antenna		Dipole Antenna
Accessory	1 AC Adapter [ADB24050]		-
Option	Input Cable for Work-Select [TW-SC24-4] Output Cable for JUDGE [TW-SC35-3] Switch Box for Work-Select [TW-WS-02] Desktop Stand [TW-SCDS01] AC Adapter [ADB24050]	Input Cable [TW-SCLI-6] Output Cable [TW-SCLO-4] Switch Box for Work-Select [TW-WS-03] Wall Mounting Bracket [TW-SCLF01] Desktop Stand [TW-SCDS01] AC Adapter [ADB24050]	AC Adapter [ADB24050-C] 2.4 GHz External Antenna [MB-13F] Switch Box for Work-Select [TW-WS-01]
			

Pliers Wrenches Lineup

A pliers wrench is a tool used to lock hose clamps by detaching or removing pins from the hose clamps used to lock radiator hoses, engine hoses, etc. It can be used for mistake-proofing (pokayoke) in combination with the Pokayoke Tools TW-800 series receiver.



Jaws

The jaws are brazed with a high hardness material.

Bumper

This prevents excessive jaw opening.

Bumper

An adjustment screw prevents a false transmission.

Pokayoke Transmitter

Either a Pokayoke slim transmitter TW-810T or a Pokayoke transmitter TW-800T is attached.

Spring

Jaws open to a certain width.

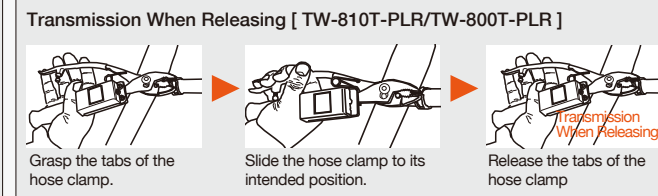
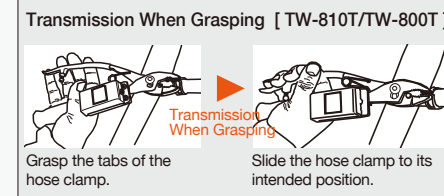
Switch

It is the same mechanism as a torque wrench with limit switch.



Transmission Timing

According to your desired transmission timing, "transmission when grasping the hose clamp with the pliers wrench (TW-810T / TW-800T)" and "transmission when releasing the hose clamp from the pliers wrench (TW-810T-PLR / TW-800T-PLR)" can be selected.



False Transmission Prevention Feature

Our pliers wrench has a false transmission prevention feature, so it only transmits when grasping above a certain thickness. The tool is shipped with a default setting to transmit when grasping an object whose thickness of 1 mm (0.04") and above. The thickness can be adjusted with the bumper (adjustment screw).



Small Type [JPS100Y] Length 200 mm (7.9") Weight 300 g (10.6 oz) Jaw Opening 10-12 mm (0.4-0.5") Max. Jaw Opening approx. 20 mm (0.8")
Light Type [JPS175Y2] Length 230 mm (9.1") Weight 350 g (12.3 oz) Jaw Opening 10-12 mm (0.4-0.5") Max. Jaw Opening approx. 25 mm (1.0")
Light & Slim Type [JPS175YS] Length 230 mm (9.1") Weight 340 g (12.0 oz) Jaw Opening 10-12 mm (0.4-0.5") Max. Jaw Opening approx. 25 mm (1.0")
Standard Type [P200Y2] Length 245 mm (9.6") Weight 410 g (14.5 oz) Jaw Opening 10-12 mm (0.4-0.5") Max. Jaw Opening approx. 25 mm (1.0")
Thin Nose Type [SN200Y2] Length 250 mm (9.8") Weight 420 g (14.8 oz) Jaw Opening 10-12 mm (0.4-0.5") Max. Jaw Opening approx. 25 mm (1.0")



Bent Nose Upward Type [BN200YU2] Length 250 mm (9.8") Weight 410 g (14.5 oz) Jaw Opening 10-12 mm (0.4-0.5") Max. Jaw Opening approx. 25 mm (1.0")
Spring Hose Clip Type [AE-200] Length 250 mm (9.8") Weight 500 g (17.6 oz) Jaw Opening approx. 33 mm (1.3") Max. Jaw Opening approx. 33 mm (1.3")
Super Wide Jaw Opening Type [LN240SR] Length 240 mm (9.4") Weight 350 g (12.3 oz) Jaw Opening 17-20 mm (0.7-0.8") Max. Jaw Opening 30 mm (1.2")
Wider Jaw Opening Type [T-308R] Length 255 mm (10.0") Weight 380 g (13.4 oz) Jaw Opening approx. 17 mm (0.7") Max. Jaw Opening approx. 17 mm (0.7")
Snap Ring (for Shaft) Type [FOS-185] Length 205 mm (8.1") Weight 300 g (10.6 oz) Jaw Opening approx. 6-8 mm (0.2-0.3") Max. Jaw Opening approx. 21 mm (0.8") Use Range of Snap Ring: 10-40 mm (0.4-1.6") Note: There is no function for preventing a false transmission. * Snap ring (for bore) type is also available.

Note: Bent nose downward type BN200YD2 is also available.

Replacement Springs



For Standard Types [SP-200]
JPS100Y
JPS175Y2
JPS175YS
P200Y2
SN200Y2
BN200YU2
BN200YD2
For Wide Jaw Opening Types [SP-201]
JPS175Y2
JPS175YS
P200Y2
SN200Y2
BN200YU2
BN200YD2
For Wider Jaw Opening Types [SP-202]
T-308R
LN240SR
AE-200

Customized Products (Examples)



We make with a minimum quantity of one. Please feel free to contact us.

Pokayoke Compatible Tools https://www.herutu.co.jp/en/product/pokayoke_tools_list.html

Tightening								
								
Impact Driver (Makita Corporation)	Impact Wrench (Makita Corporation)	Cordless Screwdriver (Makita Corporation)	Battery Powered Oil-Pulse Wrench (Uryu Seisaku, Ltd.)	Battery Shut-off Series (Yokota Industrial Co., Ltd.)	Cordless Riveter (Lobtex Co. Ltd.)	Electric Screwdriver (Nitto Kohki Co., Ltd.)	Torque Wrench (Nakamura Mfg. Co., Ltd.)	Torque Driver (Nakamura Mfg. Co., Ltd.)
Fastening / Putting Around							Bundling / Cutting	
								
【P200Y2】 Standard Type Pliers Wrench	【LN240SR】 Super Wide Jaw Opening Type Pliers Wrench	【FOS-185】 Snap-Ring Pliers Type	【AE-200】 Spring Hose Clip Type Pliers Wrench	【ER12N】 E-Clip Type Pliers Wrench	Adhesive Tape Pressuring Tool (3M Japan Ltd.)	E-Clip Holder	Cable Tie Gun (Hellermann Tyton Co., Ltd.)	【KN150】 Diagonal Cutting Pliers Type
Applying	Marking							
								
The LOCTITE(R) Hand Pump (Henkel Japan Ltd.)	【CP-02SX】 PX-20 (Mitsubishi Pencil Co., Ltd.), etc.	【CP-09SX】 H-DM (Tombow Pencil Co., Ltd.)	【CP-70SX】 Skill Writer II (Shiwa Co.,Ltd)	【CP-71SX】 TAT Stamper (Shachihata Inc.)	【CP-72SX】 Steel Paint NEO (Alton Co.,Ltd)	【CP-81SX】 Name Stamp (Shachihata Inc.)	Self-Inking Stamp (Almarq Inc.)	X Stamper (Shachihata Inc.)

Pokayoke Wireless Unit HCP-2402T-MC



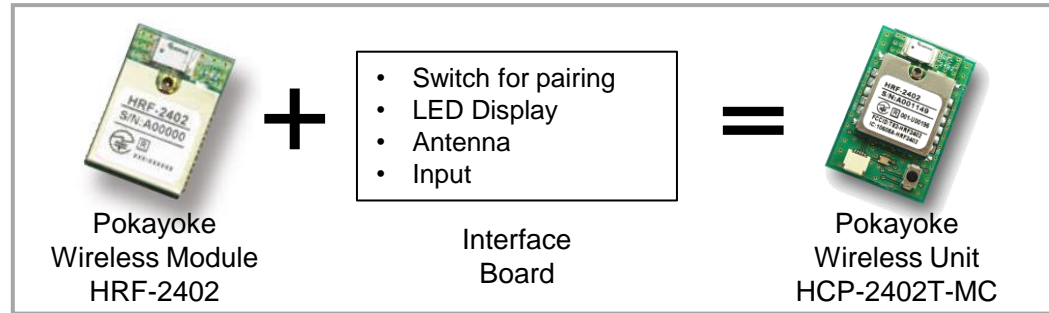
HCP-2402T-MC is a wireless unit that can communicate with the TW-800 series Pokayoke receivers.

Pokayoke Wireless Unit HCP-2402T-MC

An interface board is added to “Pokayoke wireless module HRF-2402” installed in the “Check Pen S”, which has a proven track record in factories, and the unit is provided in a form that is easy to incorporate into a tool.

Features

- ✓ Can communicate with the TW-800 series Pokayoke receivers
- ✓ The communication distance is about 30m(98ft) indoors
- ✓ Equipped with a pairing switch, LED display, antenna and input, so it can be used as a built-in unit
- ✓ Built-in proprietary communication protocol can greatly reduce the communication related development cost



Item	Specifications
Frequency Band	2,403 MHz-2,478 MHz
Input	1 Non-voltage Contact
Display	1 Communication LED : (Green / Red)
Operating power supply voltage	DC 2.2 V - 6.0 V
External Dimensions (W x H x D)	20.0×30.0×6.4 mm(0.79×1.18×0.25")
Available countries	Canada/US/Mexico/Japan/China/Thailand/Vietnam/Philippines/India

HCP-2402T-MC can be built in by retrofitting to impact driver/impact wrench/cordless screwdriver made by Makita Corporation



Makita Impact Driver/Impact Wrench/Cordless Screwdriver



TW-800 Series Pokayoke Receivers



【Impact driver/Impact wrench/Cordless screwdriver models that can build-in HCP-2402T-MC】

*Overseas

Impact Drivers DTDA040/DTDA070/DTDA100/DTDA140

Impact Wrenches DTWA070/DTWA100/DTWA140/DTWA190

Cordless Screwdrivers DFT024F/DFT025F/DFT060F(China/Thailand/Philippines/India)

Cordless Angle Screwdrivers DFL020F/DFL063F(China/Thailand/Philippines/India)

*For purchasing an impact driver/impact wrench/cordless screwdriver/cordless angle screwdriver, please contact Makita Corporation or Makita Corporation's dealers.



The hard-hat-on sensor is a wearable device that prevents accidents that occur when employees are not wearing hard hats. The sensor is easily attached to a hard hat's chin strap, and it can be used both inside and outdoors because it is waterproof and dustproof.

■ The sensor is easily attached to a hard hat's chin strap.

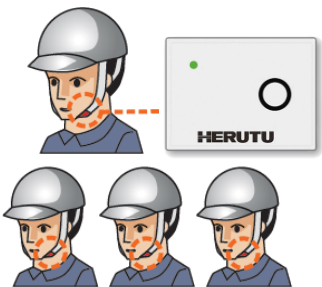


■ Available Countries :

Japan / Canada / USA / Mexico / China / Thailand / Vietnam / Philippines / India

Real-time detection of Hard-hat's tightened Chin-Strap

Hard-hat-on Sensor ENS-HH01



Approx.
30 m (98 ft)

- Attaches easily to a chin strap
- Dustproof and Waterproof (IP65)
- Equipped with wireless technology with abundant proven results at industrial sites
- No battery replacement required for 1 year based on:
 - Depending on usage conditions
 - Wearing for 8 hours a day
 - Battery level notification feature

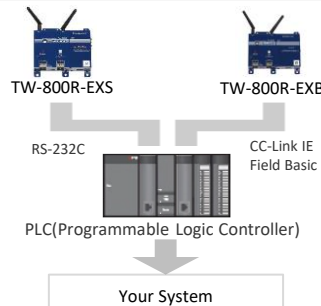
Capable of Communication with Pokayoke Receiver

Pokayoke Receiver TW-800R-EXL



- An unlimited number of hard-hat-on sensors can be connected to one receiver.
- A waterproof receiver can be custom-made.

Receivers can be imported into your system via PLC.



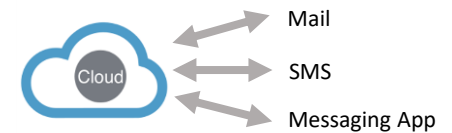
Ensuring Traceability of Safety

Application

POKAYOKE plus



- This application makes it possible to monitor whether workers are wearing hard hats at remote locations.
- The application notifies error information from Hard-hat-on Sensor by mail or SMS in real-time.



- Transmitter ID
- Wearing Status
- Transmitter Name
- Timestamp, etc.

■ ENS-HH01 Specifications

Frequency Band	2,403 MHz-2,478 MHz
Antenna	Chip Antenna
Input	2 Touch Sensors
Comm. Distance	30 m/33 yd (depends on usage conditions)
Protection Structure	Waterproof and Dustproof (Protection Structure IP65)
Display	1 LED (Green)
Switch	1 Test Switch

External Dimensions (W x H x D)	28.6 x 17.0 x 37.6 mm (1.1 x 0.7 x 1.5") (excluding protrusions)
Power Source	1 Coin Battery (CR2032)
Battery Life	For about 1 year by wearing for 8 hours a day (depending on usage conditions)
Weight	Approx. 19g (0.67 oz)
Operating Environment	Temperature: 0-50 °C (32-122 °F) Humidity: 80% or less

■ POKAYOKE plus Specifications and operating environment

Supported OS	Windows 8.1 or later to Windows 10 32-bit / 64-bit
CPU	Intel® Core™ 2.3GHz or above
Required Memory	4GB or above
Resolution	1366 x 768 (FWXGA) or above
HDD	Free space of 1GB or above, excluding data / log
Supported Languages	Japanese / English



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Please contact your nearest distributor.