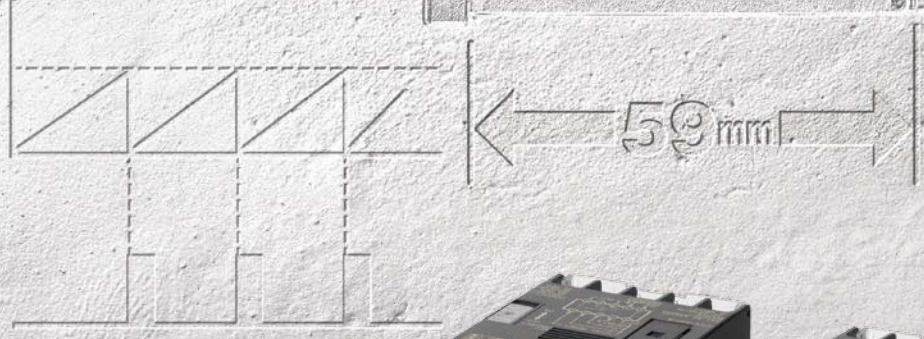
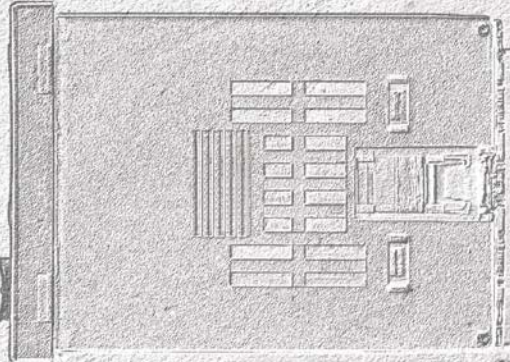
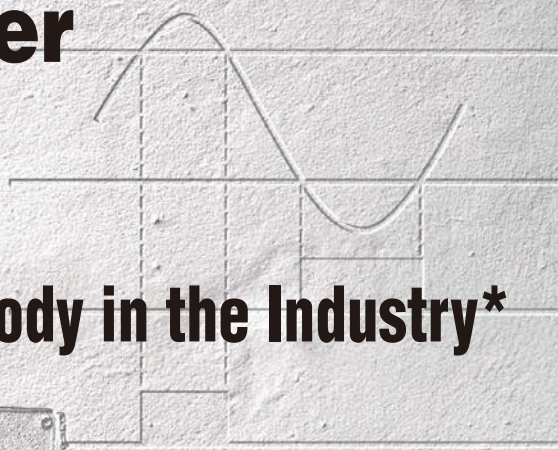


Multifunction Counter Tachometer

H7CX-□-N

The Counter with the Shortest Body in the Industry*



**Shortest
Body**

*Models for 12 to 24 VDC.
The above claim applies to counters with terminal blocks and a maximum ambient temperature of 55 °C.
According to OMRON investigation June 2009.



H7CX-A-series
Multifunction Preset Counter
with Four Digits



H7CX-A-series
Multifunction Preset Counter
with Six Digits



H7CX-R-series
Digital Tachometer

H5CX
Digital Timer
Released Simultaneously



Easy to Read + Saves Space + More Complete Lineup + Safe and Reliable + Improved Tachometer

The Most Powerful Counter Ever! The Tachometers provide even more complete functionality.

We have upgraded the popular H7CX Multifunction Counter/Tachometer. Use it for higher added value in your equipment.



Safe and Reliable

Prevent Unexpected Operation

Setting Upper Limit

Restricting the set time help prevent incorrect settings.

Service Life Notification

Output ON Count Alarm Indication

The number of times that the control output turns ON is counted and an alarm is displayed when a preset count is exceeded.

More Complete Tachometer Functionality

H7CX-AW□
H7CX-R11□
Added to the Series H7CX-R11W□



A Wide Range of Input Modes

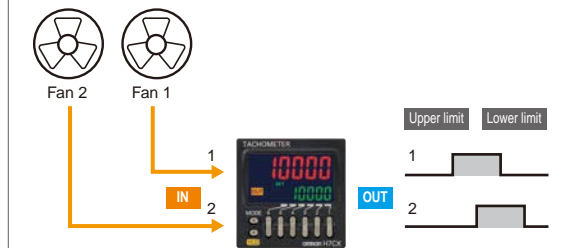
New input modes have been added to the new models. Now you can handle a wider range of applications.

(1) One-input measurement

Measurement operation with one input. Select the HI-LO, AREA, HI-HI, or LO-LO output mode.

(2) Independent Measurement for Two Inputs **NEW**

Measurement operation with two independent inputs.



More Complete Lineup

One Unit, Two Counters

Twin Counter Mode

A Twin Counter Mode has been added to enable using two counters with only one unit.

*Only two-stage models.

Design Flexibility

Replaceable Front Panel

Replace the front panel with an Optional Front Panel to change the basic color from black to light gray or white.

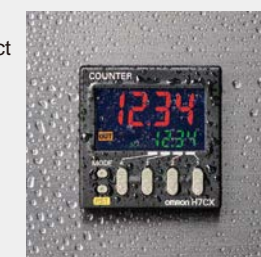
Optional Front Panels let you match the color of the panel or surrounding devices.



Waterproof, Dust-proof Structure (UL508 Type 4X and IP66)

Worry-free application is possible in locations subject to water.

*When the Y92S-29 Waterproof Packing is used.

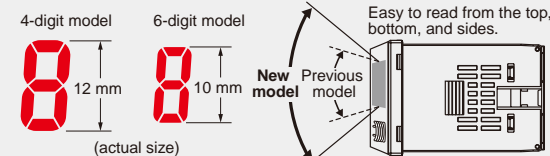


Easier to Read

Large Characters

Character Height: 12 mm

The larger characters and wider viewing angle join a bright display for easy reading even in well-lit locations.



We increased the number of display segments to make setting parameters even easier.



Status Monitoring

Orange Added to Switchable Display Colors to Readily Show the Output Status

Using Green When Output Is OFF Using Orange When Output Is ON



*Display colors can be switched only on models with terminal blocks.

Save Space

Make Thinner Panels

A Shorter Body

The shorter body enables mounting in thin control panels.



Models with terminal blocks for 12 to 24 VDC.

At only **59** mm, the shortest body for any industrial counter.

Models with terminal blocks for 100 to 240 VAC.

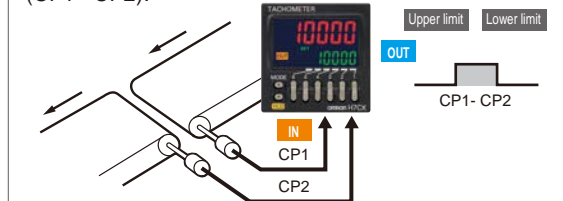
At only **78** mm, the shortest body for any industrial counter that isolates the power supply and input circuits.

*Models with Sockets: 63.7 mm (case dimension)

The above claims apply to counters with a maximum ambient temperature of 55 °C. According to OMRON investigations June 2009.

(3) Differential Input for Two Inputs **NEW**

Measuring the difference between two inputs (CP1 - CP2).



(4) Absolute Ratio for Two Inputs **NEW**

Measuring the ratio between two inputs (CP1/CP2).

(5) Error Ratio between Two Inputs **NEW**

Measuring the ratio between two inputs ((CP1-CP2)/CP2).

| | 1-input measurement | 2 independent inputs | Difference between 2 inputs | Absolute ratio between 2 inputs | Error ratio between 2 inputs |
|------------|---------------------|----------------------|-----------------------------|---------------------------------|------------------------------|
| H7CX-AW□ | ○ | ○ | ○ | ○ | ○ |
| H7CX-R11□ | ○ | — | — | — | — |
| H7CX-R11W□ | — | ○ | — | — | — |

Many Other Useful Functions **NEW**

- Peak/Bottom Displays
- Output Hysteresis
- Output OFF delay
- Switching the measurement method (pulse cycle/pulse width)
- Startup time
- Auto-zero time
- Averaging method, number of averaging times
- Prescaling
- Decimal point position
- AMD-compatible mode

Ordering Information

List of Models

| Type | Classification | Configuration | External connections | Settings | Display digits | Output | Power supply voltage | Model |
|--------------------------------|-------------------------------|---|----------------------|---|--|--|--|---------------|
| NEW H7CX-A Series | Preset counter | <ul style="list-style-type: none"> • 1-stage preset counter • Total and preset counter | 11-pin socket | 1-stage | 4 digits | Contact output (SPDT) | 100 to 240 VAC | H7CX-A114-N |
| | | | | | | Transistor output (SPST) | | H7CX-A114S-N |
| | | | | | 6 digits | Contact output (SPDT) | 12 to 24 VDC/24 VAC | H7CX-A114D1-N |
| | | | | | | Transistor output (SPST) | | H7CX-A115-N |
| | | | | | 4 digits | Contact output (SPDT) | 100 to 240 VAC | H7CX-A11-N |
| | | | | | | Transistor output (SPST) | | H7CX-A11S-N |
| | | | 6 digits | Contact output (SPDT) | 12 to 24 VDC/24 VAC | H7CX-A11D1-N | | |
| | | | | Transistor output (SPST) | | H7CX-A11SD1-N | | |
| | | | Screw terminals | <ul style="list-style-type: none"> • 1-stage preset counter • 2-stage preset counter • Total and preset counter • Batch counter • Dual counter • Twin counter | 4 digits | Contact output (SPDT) | 100 to 240 VAC | H7CX-A4-N |
| | | | | | | Transistor output (SPST) | | H7CX-A4S-N |
| | | | | | 6 digits | Contact output (SPDT) | 12 to 24 VDC | H7CX-A4D-N |
| | | | | | | Transistor output (SPST) | | H7CX-A4SD-N |
| | 4 digits | Contact output (SPST + SPDT) | | | 100 to 240 VAC | H7CX-A4W-N | | |
| | | Transistor output (DPST) | | | | H7CX-A4WSD-N | | |
| | Preset counter/ Tachometer | <ul style="list-style-type: none"> • 1-stage preset counter • 2-stage preset counter • Total and preset counter • Batch counter • Dual counter • Twin counter • Tachometer | 2-stage | 6 digits | Contact output (SPST + SPDT) | 100 to 240 VAC | H7CX-AW-N | |
| | | | | | Transistor output (DPST) | | H7CX-AWS-N | |
| | | | | | Contact output (SPST + SPDT) | 12 to 24 VDC/24 VAC | H7CX-AWD1-N | |
| | | | | | Transistor output (DPST) | | H7CX-AWSD1-N | |
| | | | | 11-pin socket | Contact output (SPDT)+ Transistor output (SPST) | 100 to 240 VAC | H7CX-AU-N | |
| | | | | | Contact output (SPDT)+ Transistor output (SPST) | | 12 to 24 VDC/24 VAC | H7CX-AUD1-N |
| Transistor output (DPST) | | | | | 12 to 24 VDC/24 VAC | H7CX-AUSD1-N | | |
| Transistor output (DPST) | | | | | | H7CX-AUSD1-N | | |
| NEW H7CX-R Series | Tachometer | • Tachometer | 11-pin socket | 1-stage (1 input and output) | 6 digits | Contact output (SPDT) | 100 to 240 VAC | H7CX-R11-N |
| | | | | | | 12 to 24 VDC/24 VAC | H7CX-R11D1-N | |
| | | | | 1-stage (2 inputs and outputs) | Contact output (SPDT+SPST) | 100 to 240 VAC | H7CX-R11W-N Added to the Series | |
| | | | | | 12 to 24 VDC/24 VAC | H7CX-R11WD1-N Added to the Series | | |

Accessories (Order Separately)

Front Panels (Replacement Part)

| Color | Model | Applicable Counters |
|--------------------|------------|---------------------|
| Light gray (5Y7/1) | Y92P-CXC4G | 4-digit Counter |
| White (5Y9.2/0.5) | Y92P-CXC4S | |
| Black (N1.5) | Y92P-CXC4B | |
| Light gray (5Y7/1) | Y92P-CXC6G | 6-digit Counter |
| White (5Y9.2/0.5) | Y92P-CXC6S | |
| Black (N1.5) | Y92P-CXC6B | |

Further Information

Refer to these Datasheets for detailed information.



**Multifunction Counter/
Tachometer
H7CX**

Cat. No.
M079-E1



**Digital Timer
H5CX**

Cat. No.
L113-E1



**Digital Timer
H5CX**

Cat. No.
L111-E1

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