| H7CZ <br> Digital Counter | Sevs to Waring Symbly PRECAUTİN |  |  |
| :---: | :---: | :---: | :---: |
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| EN INSTRUCTION MANUAL | $\triangle$－CAUTION |  |  |
|  |  |  |  |
|  | Do not allow pieces of metal，wire clippings，or fine metallicshavings or fillings from installation to enter the product． |  |  |
| OMRON Corporation <br> ©All Rights Reserved <br> 1148606－6A | $\begin{array}{l}\text { Minor injury due to explosion may occasionally occur．Do not } \\ \text { use the Counter where subject to flammable or explosive }\end{array}$ |  | Soum |
|  |  |  |  |
| OMRON Corporation <br> ©All Rights Reserved <br> For details，refer to the latest datasheet（Cat No．M079） <br> ， | Fire may occasionally occur．Tighten the terminal screws tothe rated torque．P2CF Socket terminals： $4.4 \mathrm{lb}-\mathrm{in}(0.5 \mathrm{~N} \cdot \mathrm{~m})$ |  | 边 |
| Suitabilit for Use | Minor injury due to electric shock may occasionally occur．Donot touch any of the terminals while power is being supplied． |  |  |
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|  |  |  |  |
| product |  |  |  |
|  |  |  |  |
| NEVER USE THE PRODUCTS FOR AN APPLICATION WITHOUT ENSURING THAT THE SYSTEM AS A WHOL HAS BEEN DESIGNED TO ADDRESS THE RISKS，ANDTHAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE See alsoLiability． | Minor electric shock，fire，or malfunction may occasionallyoccur．Do not disassemble，modify，or repair the Counter or | $\theta$ |  |
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|  |  |  | （9）$)^{10}$ |
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|  |  |  | 1） 1 ， comem |
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1）When mounting the Counter to a panel，tighten the two mounting screws panel screws are tightened unequally，water may enter the panel． at a temperature of less than $-10^{\circ} \mathrm{C}$ ，allow the Counter to stand at room temperature for at least 3 hours before use． C）Use the Counter within the specified ranges for the ambient operating temperature and humidity．
Do not use in the following location

Locations subject to sudden or extreme changes in temperature Locations with excessive
－Locations subject towate．
Locaions subject to oile
Do not use the Counter outsis
exposure，and oil exposure．
， 8）Install the Counter well away from any sources of static electricity，such as pipes 9）Itransporting molding materials，powders，or liquids． （i）is applied． 10） $\begin{aligned} & \text { feparaterewer lices carrying noise，and wiring for IIO signals．} \\ & \text { 11）} \\ & \text { Do not connect mory }\end{aligned}$ than two crimp terminals to the same terminal． 13）Use the specified wires for wiring．Applicable Wires：AWG 18 to AWG 22 ，solid 14）Installas a switch or cor crauit breaker that allows the operator to immediately turn OFF the power，and label it to clearly indicate its function． contains a aiode． be reached within 0.1 orther condstact so that the rated power supply voltage will quickly enough，the Counter may malfunction or outputs may be unstable．
Use a swith，relay，or other aontact to turn the power supply OF
instantaneously．Outputs may malfunction and memory erors may occur if th power supply voltage is decreased gradualy．
he set value is equal to the
If the set value and present value are both 0 ，the output will turn ON for the
default setting．The output will turn OFF during a reset operation
（2）Do not use organic solventst（such as paint thinerest or benzaine），strong alkali，of
strong acids．They will damage the external finish．
2）Confirm that indications are working normally，including the $\operatorname{LCD}$ ．The indicator environment，preventing
replacement are required．
The waterproof packing may deteriorate，shrink，or harden depending on the
application environment．Periodic inspection and replacement are required．


## Operating Procedures

Parameters are set with the operation keys on the front panel．
－Change from RUN Mode to Function Setting Mode．
$\xrightarrow{c}$
－Set the parameters using the 图 Key． The characters displayed in reverse video are the default settings．

＊1：After reaching the last set value，the 图 Key will return to the first set value，

Displays and Settings in Run Mode


| Key－protect Switch Settings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| When the key－protect switch is ON ，individual key operations can be disabled to prevent setting errors according to the key protect levels（KP－1 to KP－7） shown in the following table． <br> ＊Key protect levels are set in function setting mode． |  |  |  |  |
| Level | $\begin{aligned} & \text { *Mode } \\ & \text { Change } \end{aligned}$ | Display switch in the run mode | $\begin{aligned} & \begin{array}{l} \text { Reset } \\ \text { Key } \end{array} \end{aligned}$ | Up Ke |
| $\underset{\text {（default setting）}}{\mathrm{KP}}$ | Invalid | Valid | Valid | Valid |
| KP－2 | Invalid | Valid | Invalid | Valid |
| KP－3 | Invalid | Valid | Valid | Invalid |
| ${ }_{\text {KP－4 }}$ | Invalid | Valid | Invalid | Inval |
| $\stackrel{\text { KP－5 }}{\text { KP－6 }}$ | $\frac{\text { Invalid }}{\text { Invalid }}$ | $\frac{\text { Invalid }}{\text { Invalid }}$ | Invalid | $\frac{\text { Invalid }}{\text { Valid }}$ |
| KP－7 | Invalid | Invalid | Invalid | Valid |


| Self－diagnostic Functions |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| The following displays will appear if an error occurs． |  |  |  |  |  |
| $\begin{array}{\|c\|c\|} \hline \text { Main } \\ \text { display } \end{array}$ | $\left\|\begin{array}{c} \text { Sub- } \\ \text { display } \end{array}\right\|$ | Description | $\left.\begin{array}{\|c} \text { Output } \\ \text { status } \end{array} \right\rvert\,$ | Correction method | Set value after reset |
|  | No <br> change | Present value underflow＊2 | $\begin{array}{\|c\|} \hline \text { Noo } \\ \text { change } \end{array}$ | Either press the Reset Key or turn ON reset input． | $\begin{gathered} \text { No } \\ \text { change } \end{gathered}$ |
| $\varepsilon!$ | Not lit | CPU eeror | OFF | $\begin{aligned} & \text { Turn ON the } \\ & \text { power again. } \\ & \text { Reset Key } \end{aligned}$ | $\begin{aligned} & \text { No } \\ & \text { change } \end{aligned}$ |
| $\varepsilon ?$ | Not lit | ${ }_{(\text {RAM）}}^{\text {Memory }}$ | OFF | Turn ON the power again． | ange |
| $\varepsilon{ }^{\text {c }}$ | Stum | ${ }_{\text {M }}^{\text {Memory error }}$ | OFF | Reset |  |
| 83＊5 | $\begin{gathered} \mathrm{No} \\ \text { change } \end{gathered}$ | Output Counter Overflow | $\begin{gathered} \text { No } \\ \text { change } \end{gathered}$ | Reset Key | Noo ${ }_{\text {Nonge }}$ |
| ${ }^{*} 1$ ．This includes times when the life of the EEPROM has expired． <br> ＊2．This occurs if the present value falls below－99999． <br> ＊3．Display flashes．（ 1 －second cycles） <br> ＊4．The total ON count will not be cleared by using the Reset Key． <br> ＊5．The normal display and $\varepsilon 3$ will appear alternately． When the Reset Key is pressed，$\varepsilon 3$ will not be displayed even if the alarm set value is exceeded．（Monitoring is possible，however， because the Counter will continue without the output ON count being cleared．） |  |  |  |  |  |
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## Conformance to EN／IEC Standards

－When conforming to EMC standards，refer to the information Provided in this instruction Manual for cable selection and other
conditions． conditions．
interference，in which case the user may be required to take adequate measures to reduce interference．
Basic insulation is provided between power
Basic insulation is provided between power supply and input terminals，between power supply and output terminals，and
between input and output terminals．（No insulation is provided
between between the power supply and input terminals for the
$H 7 C Z-L 8 D 1$ ．） H7CZ－L8D1．）．
－Basic insulation is provided between power supply and output
terminals，and between input and output terminals．When double insulation or reinforced insulation is required，apply double
insulation or reinforced insulation as defined in IEC 60664 that is suitable for the maximum operating voltage with clearances or solid insulation．
Connect the input and output terminals to devices that do not ha
any exposed charged parts．

Precautions for Compliance with UL Standards and CSA Standards
Notice to Users of the H7CZ in the USA and Canada Please use the following installation information instead of the
general information in the instruction manuals in order to use the product under certified conditions of UL and CSA when the produc is installed in the USA or Canada．These conditions are required by NFPA ．0，National Electrical Code in the USA and the information given in the product manuals or safety precautions．
－Installation in a Panel

H7CZ is normally installed on a flat surface in an operation panel．Use a Type 1 Enclosure for the operation pane Environmen Surrounding Air Temperature：-10 to $40^{\circ} \mathrm{C}$ Accessories（Order Separately） \begin{tabular}{|l|l|l|}
\hline Track Mounting／ \& 8 －pin \& P2CF－08 <br>
\cline { 2 - 4 } \& 8 －pin，finger－sien \& P2F <br>
\hline

 

\& Front Connecting Socket \& 8 －pin <br>
\cline { 2 - 3 } \& B－pin，finger－safe type \& P2CF－08－E <br>
\hline Flush Mounting Adapter \& -- \& Y92F－30 <br>
\hline Waterproof Packing \& -- \& Y92S－29 <br>
\hline
\end{tabular}

OmROn
H7CZ
전자 카운터
KOR 취급설명서

 후에도 항상 가까운 곳에 두고 사용해 주십시오．

## OMRON 주식회사


\％1：설정값가 아지막 긑부문에 왔을 때 圂키로 다시 앞부분으로 돌아갑니다

|  |  | 운전 모드에서의 표시／설정 |
| :---: | :---: | :---: |
|  | 카운터값 <br> 설정값 |  |



\section*{| 레비ํ | ＊모든 이동 |  | 리셋키 | UP9｜ |
| :---: | :---: | :---: | :---: | :---: |
|  | 룰） | ㅏㅜㅇ | 가웅 | गю |
| KP－2 | 분가 | 가능 | 불가 | 가는 |
| KP－3 | 로ㅎㅏㅏ | 가는 | 가는 | 붑가 |
| ${ }_{\text {KP－4 }}$ | 부ㄹㅏㅏ | 가는의 | 부ㅎㅏㅏ | 붑가 |
| ${ }_{\text {KP－5 }}$ | 리ㅂㅏㅏ | 불가 | 䆚） | 롱간 |
| KP－6 | 분가 | 분가 | 까능 | 가능 |
| KP－7 | 룰가 | 불가 | 불가 | 가는 |


| 자기진단기능 |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 이상이 발생했을 시에는 아래와 같이 표시됨니다． |  |  |  |  |  |
| 제1표시 | 제12표시 | 내용 | ｜출력 상태 | 목계 방범 | 녹귀 후의 설정 |
| ＊ | 편화 앖응 | 카운터랎 <br> 언더플로＊2 | 변화 앖응 | 리섯키 혹은引싯 입력 | 분화 앖음 |
| \＆： | 소등 | CPU 이상 | OFF | 맀써키 형ㅇㅇㅇㅇ | 변화 앖음 |
| $\varepsilon$ E | 소등 | 에모리 이상（RAM） | OFF | 정원 재투입 | 변하 앖음 |
| $\varepsilon$ ¢ | stim | 메모리 이상 | OFF | 己1챗키 | 출하 시의 상태 |
| ¢3＊5 | 분하 응음 | 출력 빗수 오버 | ｜변화 앙흥 | 리세싴＊4 | 밴화 앖응 |
| ＊1．EEP－ROM의 저장 수명이 다턌을 경우도 포항； <br> ＊2．카운터치가－99999를 밑돌있을 경우에 발생합니다． <br> ＊ 3 ．정멸 표시합니다．（1초 주기） <br> ＊4．리섯키를 눌러도 충 ON 칫수는 삭ㅈㅔㅔㅚㅈㅣ 안습니다． <br> ＊5． 63 늡보동 표시를 벅갑앞ㅍㅍ시항다． <br> 리첫키를 누르면경보 설정값 이상이라도 $\varepsilon 3^{\prime \prime}$ 는ㅍㅅㅣㅚㅚㅈㅣ 않음 （단．출력 ON 힛수는 지워지지 앙고 계속 카운트되기 때문에 모니터는 가능） |  |  |  |  |  |

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