
 the instructions in this insert to preserve safery protections
Warning：If this instrument is not installed and used in accordance with these instructions，the protection provided by it against hazards may be impared．To meet the requirements of EN $610101-1$ standard，where the unit is permanently connected to main supply，it is obligatory to install a circuit breaking device that is
easily reachable by the operator and clearly marked as the disconnecting device． easily reachable by the operator and clearly marked as the disconnecting device．
guarantee electromagnetic compatibility，the following guidelines should be followed：
－Power supply wires should be separately routed from
signal wires and never ran in the same conduit．
－Use shielded cable for signal wiring．
fore connecting signal wires，signal type and input range should be verified to be within the proper limits．Do not onnect more than one input signal to the meter simultaneously．

Programming Panel


Return to Factory Configuration

Total Configuration Lock－out
Note：For selective lock－out configuration download complete manual from

$$
\begin{aligned}
& . \text { AutomationDirect.con } \\
& \text { RuA Mode }
\end{aligned}
$$


Enter code（deferult code is oooo）．If code is forgoten，pefform
Return to factor confiuration to ogain have access to parameters
Rock
${ }_{5 E}{ }^{\circ}$
（1）Select LIST and tIOC will momentarily display
$\xrightarrow[\square]{\square} \xrightarrow{(1)} \quad \begin{aligned} & \text { Select } Y \text { ES for complete lock out of all parameters．} \\ & \text { When locked out parameter values can be viewed but }\end{aligned}$
$!$
Refer to manual

| Eefer to manual |
| :---: |
| oroptions． |




日景日日 Run Mode

$\stackrel{\downarrow}{80.68}$ Enter setpoint value for relay


(5torE) Save value



Model DPM2－AT－2RL－HL Example Application：
$0-10 \mathrm{VDC}$ input， 0.0 to 100.0 display，relay 1 set for N．O．operation，activates on an increase to a display value of 80.0 after 5 sec．delay．
Note：For additional

|  | Run Mode |  |  | （－）ENTER：Verical displacement． |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pro | Programming Mode：If total parameter lock out has |  |  | （D）SHirt：Horizontal lisplacement． |  |
| （1）been enabled．dAtA will be displayed instead of Pro． |  |  |  |  |  |
| $1 i^{\circ}$ | （1）${ }^{51}$ |  | （1） | SEEP |  |
| © ${ }^{1}$ | Input menuProcessInput | © | Display menu | （1） | Relay configuration menu |
| Pras |  |  | InP1 and InP2 values | （5EE－Relay 1 setpoint |  |
| （1）I |  | 5chl | entered manually using |  |  |
| －- － | Volt input | © | programming keys | 明明 | Enter setpoint 80.0 for this example |
| © |  | P | Input signal value | E日B | Enter setpoint 80.0 for this example |
| 10. | $\pm 10 \mathrm{~V}$ range |  | corresponding to desired display value dSP1 | h1 | Relay 1 activates on an increasingdisplay value to setpoint． |
| ©． |  |  |  |  |  |
| 5tar | Save values | ［日日日㫙 | Enter O for this example |  | When Relay 1 is not activated，the normally open contact is open and the normally closed contact is closed． |
| $\stackrel{\prime}{\theta 日 \theta 日]}$ | Run Mode | dit | Display value | $n 0$ |  |
|  |  |  |  | $d<y$ |  |
|  |  | ＊间 | Enter O for this example |  | Relay 1 changes state at SET 1 setpoint after time delay |
|  |  |  |  | $\begin{aligned} & 01 \\ & \frac{00-0}{0.0} \end{aligned}$ |  |
|  |  | ［日因日 | Seint |  | Enter delay time of 5.0 sec for this example |
|  |  | （1） | this example |  |  |
|  |  |  | Input signal value | 5 （1）Save values |  |
|  |  |  | display value dSP2 | 乾 R Run Mode |  |
|  |  | 日旺 | Enter 10.0 for this example |  |  |
|  |  |  |  |  |  |  |  |
|  |  | d5P3 | Display value corresponding to InP2 |  |  |
|  |  |  | Enter 100.0 for this example |  |  |
|  |  |  |  |  |  |  |  |
|  |  | 5tar | Save values |  |  |
|  |  |  | 日 Run Mode |  |  |
|  |  |  |  |  |  |  |  |

## 4－wire with external excitation



## Relay output wiring

Direct Access to Relay Setpoints （DPM2－AT－2RL－HL only）


| Technical Specifications |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Process Input | Range | $\begin{aligned} & \text { Input } \\ & \text { Impedance } \end{aligned}$ | Resolution |  | Accuracy |  |
|  | $\pm 20 \mathrm{~mA}$ | $20 \Omega$ | $21 / 4$ |  | ＊（0．1\％rdg＋154a） |  |
|  | $\pm 10 \mathrm{~V}$ | 2M $\Omega$ | 1mV |  | $\pm(0.1 \%$ rdof 6 mm$)$ |  |
|  | $\pm 200 \mathrm{~V}$ | $2 \mathrm{M} \Omega$ | 20 mV |  | $\pm(0.1 \%$ rdgot．1v） |  |
| Sensor Excitation |  |  |  |  |  |  |
| Potentiometer | Range | Maximum <br> Measurement <br> Current | Resolution | Accuracy |  |  |
|  | 100－100k 2 | $<0.4 m$ | 0．01\％F．S． | $\pm(0.1 \%$ rdg＋0．0．5\％F．S．） |  |  |
| Resistance | 999．9， | 2.3 mA | $0.1 \Omega$ | $\pm(0.1 \%$ rig +0.78 ） |  |  |
|  | 9999， | 2301 A | $1 \Omega$ | $\pm(0.1 \%$ rdg 68 ） |  |  |
|  | 50k | 23／4 | $10 \Omega$ | $\pm(0.1 \%$ rdot +5 S ） |  |  |
| Temperature | RTD | Pt100（3 wire） |  | Pt1000（2 wire） |  |  |
|  | Fixed Display Range／ Resol <br> Resolution | $-20.0^{\circ} \mathrm{C}$ to $8000^{\circ} \mathrm{C} / 0.0^{10} \mathrm{C}$ <br>  $-328^{\circ} \mathrm{F}$ to $1412^{\circ \mathrm{F}} / \mathrm{I}^{\circ \mathrm{F}}$ |  |  |  |  |
|  | Measurement curent | 1 mA |  | 1001 A |  |  |
|  | Maximum resistance eer wie | 402 （balanced） |  | － |  |  |
|  | Lineariation | IEC 60751 |  |  |  |  |
|  | Coeficicient | 0.00385 |  |  |  |  |
|  | Accuray | $\begin{aligned} & \pm\left(0.15 \% \text { rdd+0.5 }{ }^{\circ} \mathrm{C}\right), \mathrm{k}-50^{\circ} \mathrm{C} \pm\left(1 \% \mathrm{rdg+0.5}^{\circ} \mathrm{C}\right) \\ & \pm\left(0.15 \% \text { rdg }+0.99^{\circ} \mathrm{F}\right), \mathrm{k}-58^{\circ} \mathrm{F} \pm\left(1 \% \mathrm{rdg}+0.9^{\circ} \mathrm{F}\right) \\ & \hline \end{aligned}$ |  |  |  |  |
|  | Thermocouple | $J$ |  | $K$ | $T$ | $N$ |
|  | Fixed Display Range／ Resolition | $-150.0^{\circ} \mathrm{C}$ to $999.9^{\circ} \mathrm{C} / 0.1^{10} \mathrm{C}$ <br>  $-238^{\circ} \mathrm{F}$ to $2012^{\circ} \mathrm{F} / 1^{\circ} \mathrm{F}$ |  |  |  |  |
|  | Cold junction compensation range | $-10^{\circ} \mathrm{C} 10600^{\circ} \mathrm{C}\left(14^{\circ} \mathrm{F}\right.$ to $\left.140^{\circ} \mathrm{F}\right)$ |  |  |  |  |
|  | Accuracy |  | $\begin{aligned} & \pm(0.1 \% \text { rddat } \\ & \pm 0.1 \% \text { rddat } \end{aligned}$ | $\begin{gathered} 0.0^{\circ} \mathrm{Co} \\ \left.\hline 10^{\circ}\right) \end{gathered}$ |  | $\pm\left(0.1 \% \mathrm{rdg}+. .^{\circ} \mathrm{C}\right)$ |
| Conversion | Teechique | Sigma－Delta |  |  |  |  |
|  | Resolution | $\pm 16$ bis |  |  |  |  |
|  | Conversion raie | 20 times pers second |  |  |  |  |
| Display | Range | －9999 to t9999，selectalle decimal point position |  |  |  |  |
|  | Type | 4 digit 1 1mm（0．55），red |  |  |  |  |
|  | LEDs | Reay 1 ，Relay 2 |  |  |  |  |
|  | Display yeferesh rate | 50ms |  |  |  |  |
|  | Displa／Input overange indication | ＂－OUE＂，＂OUE＂ |  |  |  |  |
| Accuracy Conditions | Temperature coeficient | $100 \mathrm{pmm} / \mathrm{C}$ |  |  |  |  |
|  | Wamm－up time | 5 minutes |  |  |  |  |
|  | Temperature | $23^{\circ} \mathrm{C}+5^{\circ} \mathrm{C}$ |  |  |  |  |
| Relays （DPMI－AT－2RL－HL only） | 2 Relay SPDT |  |  |  |  |  |
| Power Supply and Fuses |  | 20－265VAC 50／60 Hz or 11－265VOC（Recommended fusing 3A／250V，DIN 41666） |  |  |  |  |
| Power Consumption |  | 3W |  |  |  |  |
| Filter | Cutoff frequency（－3iB） | 7．3H210 0．2Hz |  |  |  |  |
|  | Slope | －200B／Dec． |  |  |  |  |
| Environmental Conditions | Operating temperalure | $-10^{\circ 0} \mathrm{C} 0+60^{\circ} \mathrm{C}\left(14^{4} \mathrm{~F}\right.$ to 140\％） |  |  |  |  |
|  | Storae temperaure | $-25^{5} \mathrm{C}$ 10 $+85^{\circ} \mathrm{C}\left(-13^{35} \mathrm{~F}\right.$ to 1855\％） |  |  |  |  |
|  | Relative humidity （non－condensing） | －95\％＠400（104\％） |  |  |  |  |
|  | Maximum alitude | 2000 m |  |  |  |  |
|  | Frontal protection degree | P65 |  |  |  |  |
| Environmental Air |  | No corrosive gases permited |  |  |  |  |
| Agency Approval |  | CE |  |  |  |  |

Additional Help and Support
For additional information on this product download the complete manual from www．AutomationDir
For additional technical support and questions，call our Technical Support team＠1－800－633－0405

