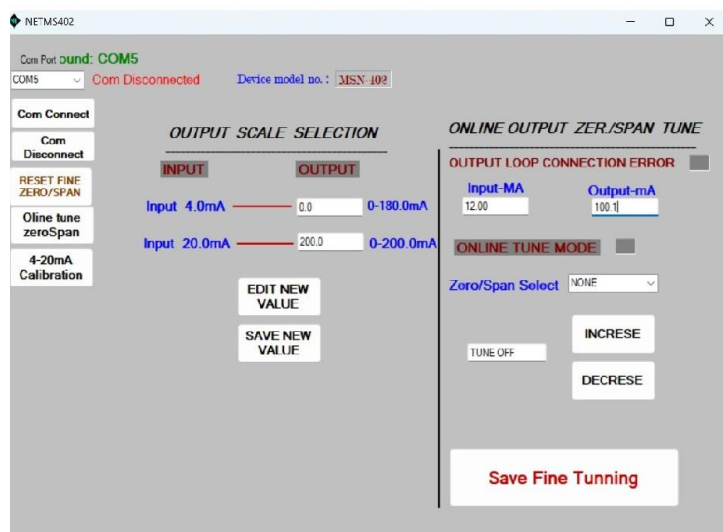


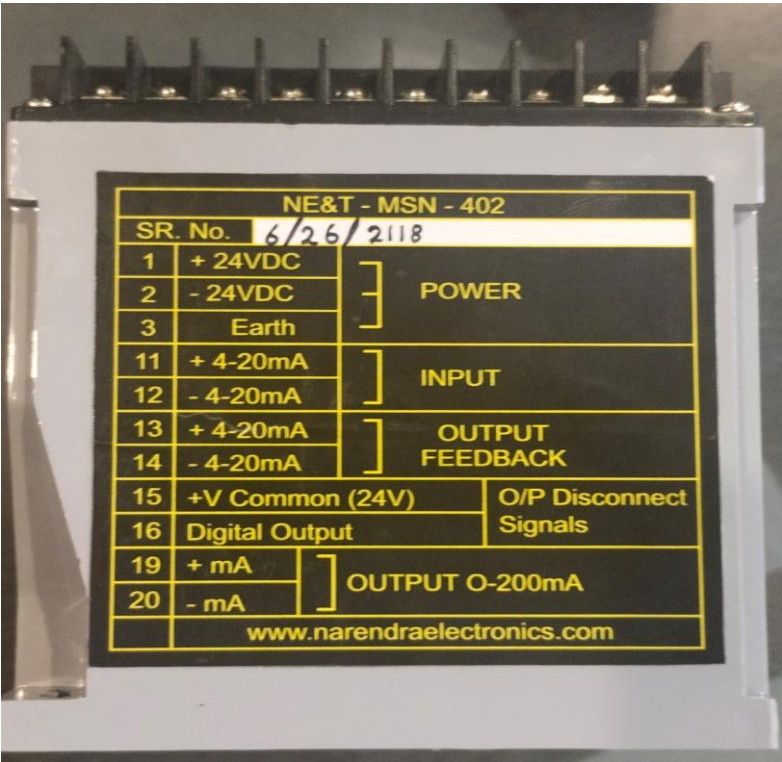


INTRODUCTION:

This is a microcontroller-based universal current output transducer. It features a 4-20mA input and a configurable output range of 0 to 200.0 mA, with adjustable Span Low and Span High settings. It includes a 4-20mA output feedback signal linked to the 0-200mA output; this feedback—which is fully isolated—is generated by monitoring the main output. If the 0-200mA output circuit breaks or fails, the feedback output defaults to 4.0mA and an error relay activates. Additionally, potential-free optical digital outputs are available at terminals 15 and 16. The device operates on a 24V DC supply and features a USB-C port, allowing the user to perform configuration and calibration.

SPESCIFICATION

- | | |
|--------------------|--------------------------------|
| ■ Power supply | : 24VDC |
| ■ ANALOGUE O/P | : 0-200mA (Isolated)Adjustable |
| ■ Input Range | : 4-20mA |
| ■ Feed Back O/P | : 4-20mA (Isolated) |
| ■ Heat Control Fan | : 24 DC |
| ■ Operating temp. | : 0 dec. – 55De. Cen. |
| ■ DISPLAY | : On configuration Software |
| ■ Enclosure | : Plastic Abs |
| ■ size | : 113.6x100.7x107 mm (HxWxD) |
| ■ Mounting | : Rail Mounting |
| ■ Model No | : MSN-402 |



TERMINALS DETAILS

ADC VALUE:

INPUT CHANNEL NO. 1

ZERO VALUE SAVE

LOW VALUE SAVE

HIGH VALUE SAVE

SAVE CALIBTATION

CALIBRATION PROCESS READ CAREFULLY

Connect the MA source to the device. Set the source to a value of 0 mA, then press the "Save Zero Value" key within the software interface; the Low value will be saved in the text window. Next, set the source to 4 mA and press the "Save Low Value" key in the software; the low value will be saved in the text window. Subsequently, set the source to 20 mA, press the "Save High Value" key, and verify that the value is saved in the text window. Finally, press the "Tune-Write" key to confirm that communication between the device and the software is established. Once completed, a message indicating that the calibration is finished will appear.

Back

Calibration: Open the configuration software on your computer and connect the device to the computer's USB port using the appropriate USB cable. Select the COM port and click the 'Connect' button; once communication is established, the MSN 402 indicator will start blinking. Next, click the '4-20mA Calibration' button to access the calibration page. Connect an mA source to the device's input terminals 11 and 12, and set the source output to zero. Click the 'Zero' button on the software screen; the corresponding value in the adjacent text box will turn green, indicating it has been stored. Then, set the source to 4mA, wait for two seconds, and click the 'Save Low Value' button; the value in the corresponding text box will turn green. Next, set the source to 20mA, wait for two seconds, and click the 'Save High Value' button; the value in the corresponding text box will turn green. Finally, click the 'Save Calibration' button, confirm by clicking 'OK', and then click the 'Back' button to return to the main page. The calibration process is now complete.

Edit New Value: Press the 'Edit New Value' button to open a small window. Enter the desired values into the 'Low Limit' and 'High Limit' text boxes, then press Enter; the small window will close. Next, press the 'Save New Value' button to store the values in the device; the value will then be displayed in the 'Output mA' text box.

Fine Tuning: Press the 'Fine Tune Zero/Span' button and select 'Zero' from the combo box. Ensure a meter is connected to output terminals 19 and 20; otherwise, tuning cannot be performed. Check if the output matches the value entered for the 'Low' limit; if not, adjust it using the Up/Down keys. Once the correct value is achieved, press the 'Save Tuning' button. The system will then prompt you to select 'Span'; select 'Span' and verify that the meter displays the value you entered for the 'High' limit. If it does not match, tune it using the Up/Down keys and then press the 'Save Tune' button.