

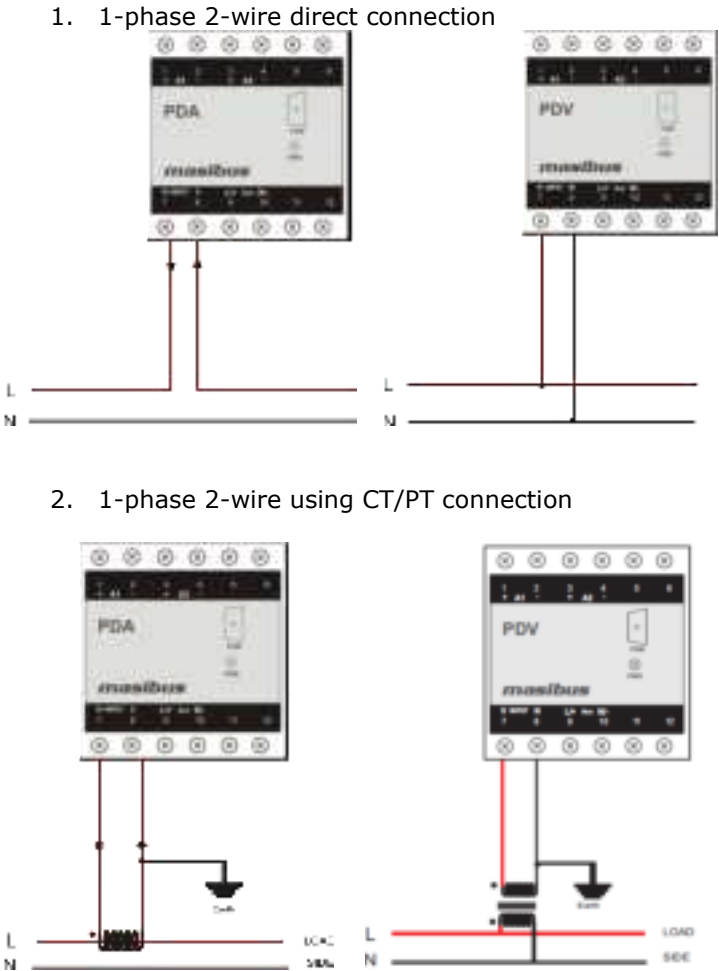
Instrument Class 1 or better PTs and CTs are recommended. Do not use protection class CTs to feed the PDA, as they have poor accuracy and phase characteristics. Ensure that the CT primary rating has been selected so that your normal load variation lies between 40% and 80% of its full scale. If your CT is over-rated, say if the load is always less than 10% of the CT primary rating, accuracy suffers.

PT, CT WIRING

The PTs and CTs must have adequate VA rating to support the burden (loading) on the secondary. You may want to support the auxiliary supply burden from one of the PTs. CTs wiring can impose additional burden (loading) on the CT. For example, if the CT has a 5A secondary and the wire resistance is 1.0 Ω, then the CT has to support an additional burden of 5VA. The wiring distance from the CT secondary to instrument should be such that, VA of wire path between PDA and CT along with VA of PDA should not exceed the VA rating of CT, otherwise the CT could get over-burdened and give large errors.

PDA/PDV should be conveniently located for easy connections of voltage (PT) and Current (CT) signals.

Terminal Wiring Details



Jumper Setting for Output

Type of output (current or voltage signal) has to be set by the Jumper Setting.

For Setting of Jumper the user needs to open the transducer housing & set the jumper located on PCB to the desired output type Voltage or Current. Output range changing is not possible with jumper setting. Refer below Fig. for jumper setting.

Jumper Setting	Type of Output Signal
Jumper 3&4 Short, 1&2 Open 	load-independent current
Jumper 1&2 Short, 3&4 Open 	load-independent voltage

Configuration Via Programming port

A PC with USB interface along with the configuration cable TT7SCC and the configuration software are required to Program the transducer. The configuration software mMFT is available on our Website (www.masibus.com).

The connections between
“PC ↔ TT7SCC ↔ Masibus PDA/PDV Transducer”
The power supply must be applied to Transducer before it can be Configured.

TROUBLESHOOTING TIPS

The information in Table-1 describes potential problems and their possible causes. It also describes checks you can perform or possible solutions for each. After referring to this table, if you cannot resolve the problem, contact our sales representative.

Table-1: Troubleshooting

Potential Problem	Possible Cause	Possible Solution
The Power Led OFF after applying control Power to the PDA/PDV.	The PDA/PDV may not be receiving the necessary Power.	Verify that the PDA/PDV line (L) and neutral (N) terminals are Receiving the necessary power.
The data being displayed is inaccurate or not what you expect.	Incorrect setup values.	Check that the correct values have been entered for PDA/PDV setup parameters (CT and PT ratings, Output setting).
	Incorrect voltage inputs.	Check PDA/PDV voltage input terminals to verify that adequate voltage is present.
	PDA/PDV is wired improperly.	Check that all CTs or PTs are connected correctly and that they are energized. Check shorting terminals.

UNIT NOT TURNING ON

The problem can be bad connection / power of incorrect rating.
First check, power on terminal of the instrument itself if it is not present then the fault is in power cable.
One must take care while dealing with Power wirings because it may create electrical shock.

UNSTABLE READING

Check for loose connections.
First verify that all conventional instrumentation norms have been followed for wiring.
Check for ripple on power supplies of Input section and Output sections. If power supplies have ripples, input voltage may be low or there is some failure on power supply card.

OUTPUT NOT MATCHING WITH THE EXPECTED VALUE
It is a normal tendency to doubt the instrument performance when the Output is not matching the expected value. Kindly make sure that the output is incorrect with respect to input signal, before attempting any re-calibration.
Account for measuring instrument’s inaccuracies, lead errors and calibration errors. Care must be taken when measuring Output signal.
An ordinary 3½ digit multimeter is used it can show reading which deviates from what the instrument is showing as the accuracy of the multimeter may not be as good as the that of the instrument. So use calibrating instrument of accuracy better than 0.1% for purpose of calibration.
If these troubleshooting tips do not solve your problem then, please contact technical support at either nearest area office or Main Head Office as given on the first page.

For operation manual please visit www.masibus.com
Specifications are subject to change without notice due to Continuous improvements.
Masibus Automation And Instrumentation Pvt. Ltd.
B-30, GIDC Electronics Estate, Sector-25, Gandhinagar-382044, Gujarat, India.
Tel: +91 79 23287275-77 Fax: +91 79 23287281
Web:www.masibus.com Email:support@masibus.com