

SmartGen PTM6940 Potential Transformer Module User Manual

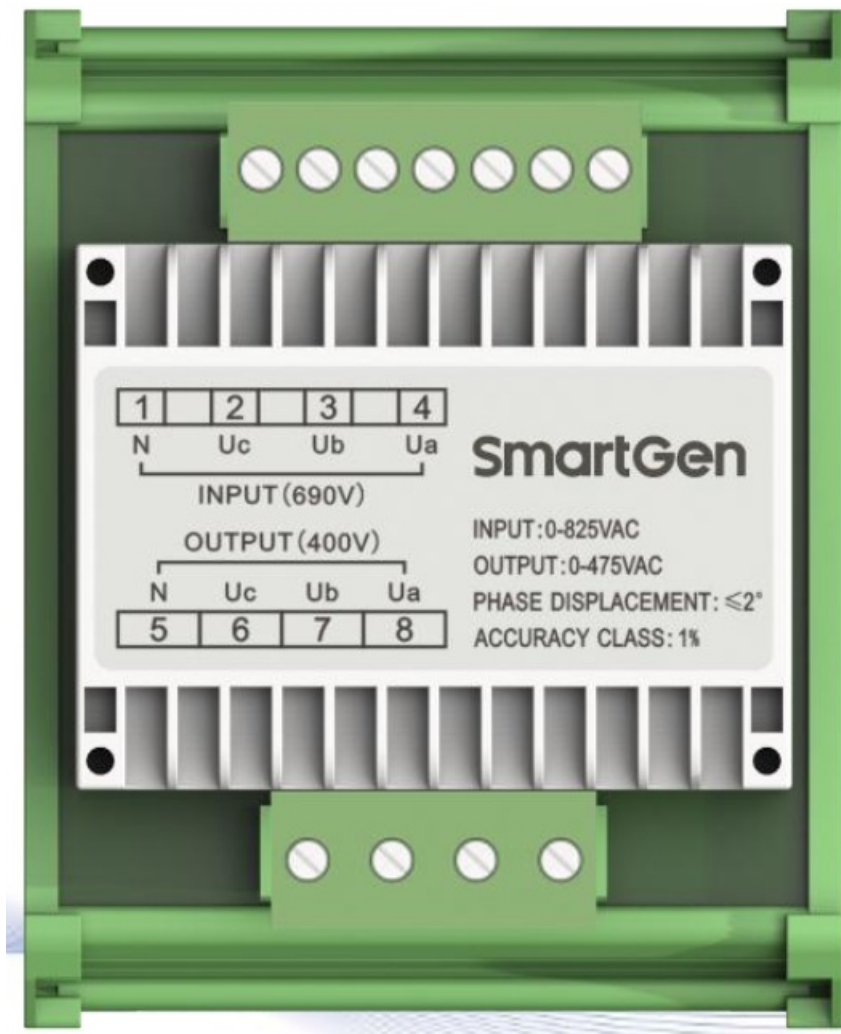
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SmartGen PTM6940 Potential Transformer Module



SmartGen Technology Co., Ltd.

No.28 Jinsuo Road, Zhengzhou, Henan Province, China Tel: +86 371 67988888/67981 888/67992951 +86 371 67981000(overseas)

Fax: +86 371 67992952 Web: www.smartgen.com.cn/ www.smartgen.cn/ Email: sales@smartgen.cn

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Table 1 Software Version

Date	Version	Note
2019-11-13	1.0	Original release.
2020-11-20	1.2	Added instructions to typical application.
2022-08-24	1.3	Update company logo and manual format.

OVERVIEW

PTM6940 Potential Transformer Module is a kind of PT module which transforms input voltage 690VAC (Rated) to output 400VAC (Rated). It can be applied in higher voltage collection scenario together with a controller.

PERFORMANCE AND CHARACTERISTICS

- Input voltage range: 0~825 VAC;
- Output voltage range: 0~475 VAC;
- Phase shift: 2
- Accuracy: ≤1%;
- Realize signal insulation;
- Suitable for 3Ph 3W, and 3Ph 4W.

SPECIFICATION

Table 2 Technical Parameters

Items	Contents
Input Voltage (Rated)	690VAC
Output Voltage (Rated)	400VAC
Case Dimensions	72.0mmx89.6mmx63.2mm
Working Temperature	(-25~+70)°C
Working Humidity	(20~93)%RH
Storage Temperature	(-30~+80)°C
Weight	0.39kg

WIRE CONNECTION

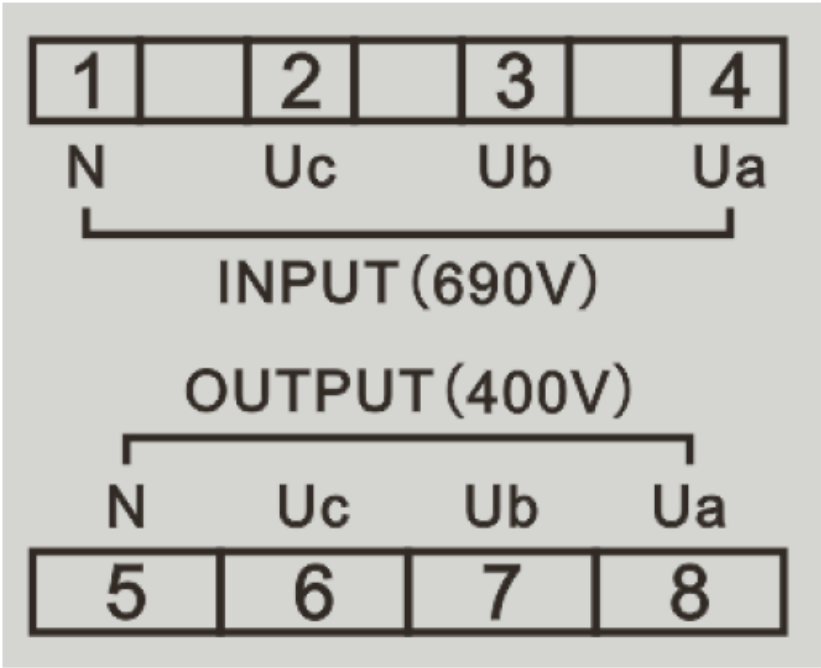


Fig.1 PTM6940 Terminals

Table 3 Connection Terminal Description

No.	Function	Cable Size	Remark
1	N Wire Input	1.0mm ²	Connects sampling voltage N wire.
2	U _c Phase Voltage Input	1.0mm ²	Connects sampling voltage C phase.
3	U _b Phase Voltage Input	1.0mm ²	Connects sampling voltage B phase.
4	U _a Phase Voltage Input	1.0mm ²	Connects sampling voltage A phase.
5	N Wire Output	1.0mm ²	Connects controller N wire.
6	U _c Phase Voltage Output	1.0mm ²	Connects controller U phase, or R phase voltage monitoring input.
7	U _b Phase Voltage Output	1.0mm ²	Connects controller V phase, or S phase voltage monitoring input.
8	U _a Phase Voltage Output	1.0mm ²	Connects controller W phase, or T phase voltage monitoring input.

TYPICAL WIRING DIAGRAM

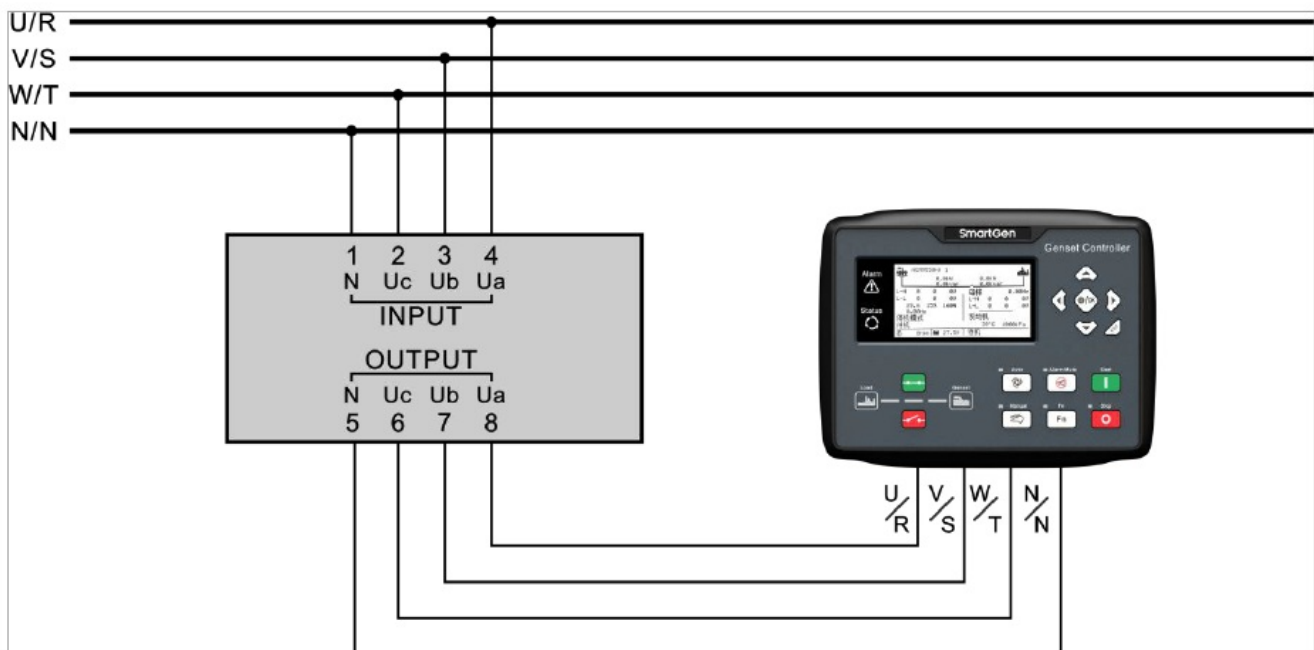


Fig.2 Generating Voltage Sampling Wire Connection

NOTES:

1. PT ratio of controller can be set according to the site situation (705:400 is recommended).
2. This module is only applicable to genset controller of SmartGen and PT ratio needs to be set.
3. This module is used for signal transformation, not for both signal transformation and power supply.

OVERALL DIMENSIONS AND INSTALLATION

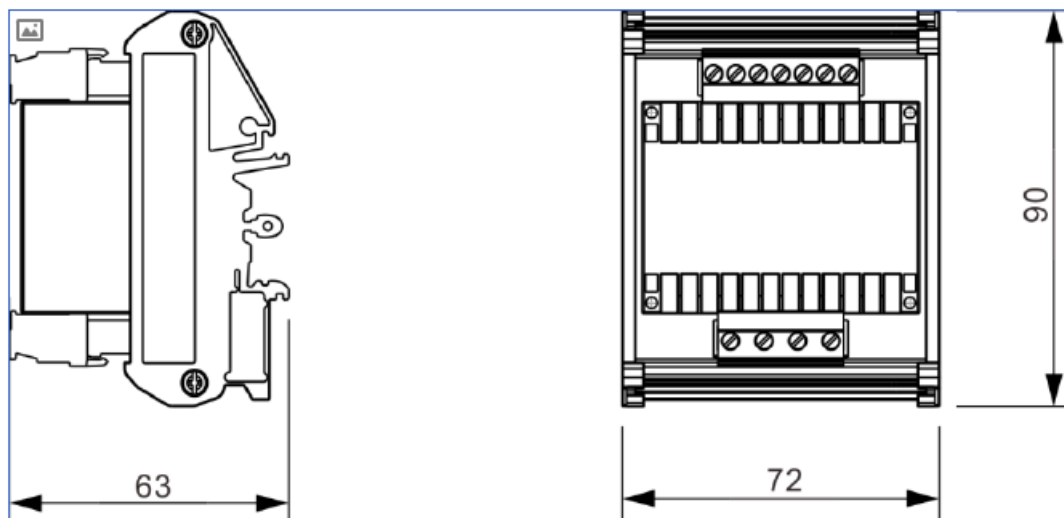


Fig. 3 PTM6940 Overall Dimensions Unit

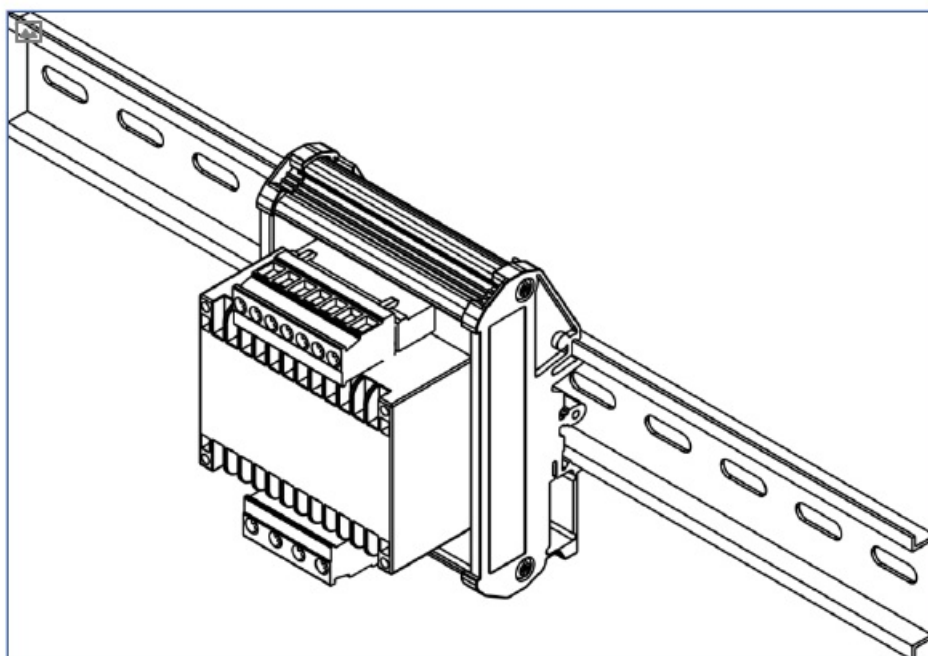


Fig. 4 PTM6940 Rail Installation

TROUBLE SHOOTING

Table 4 Troubleshooting

Symptoms	Possible Solutions
Sampling voltage value abnormal on controller	Check module wire connection or the PT ratio of the controller.
Sampling voltage phase sequence abnormal on controller	Check module wire connection.
Sampling voltage loss of phase on controller	Check module wire connection.

Documents / Resources

	SmartGen PTM6940 Potential Transformer Module [pdf] User Manual PTM6940 Potential Transformer Module, PTM6940, Potential Transformer Module, Transformer Module, Module
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References

- [众智](#)
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