



TSA
TRANSDUCER SENSORS AUSTRALIA



**12 MONTH
WARRANTY**

Digital Pressure Controller

TSA-105PST

FEATURES:

- Standard 100mm face diameter
- 4-digit LED display
- 4 Control Relay Outputs
- 4~20mA signal output
- Power supply 24VDC and 220VAC



Overview

TSA-105PST is an intelligent digital displayed product for pressure testing and controlling. It integrates functions of measuring, display, output and control all in one. It has a complete electronic structure. Oil-filled piezoresistive pressure sensor with diaphragm is applied in the front end. A high accuracy A/D converter allows accurate switching and analog signal transmission.

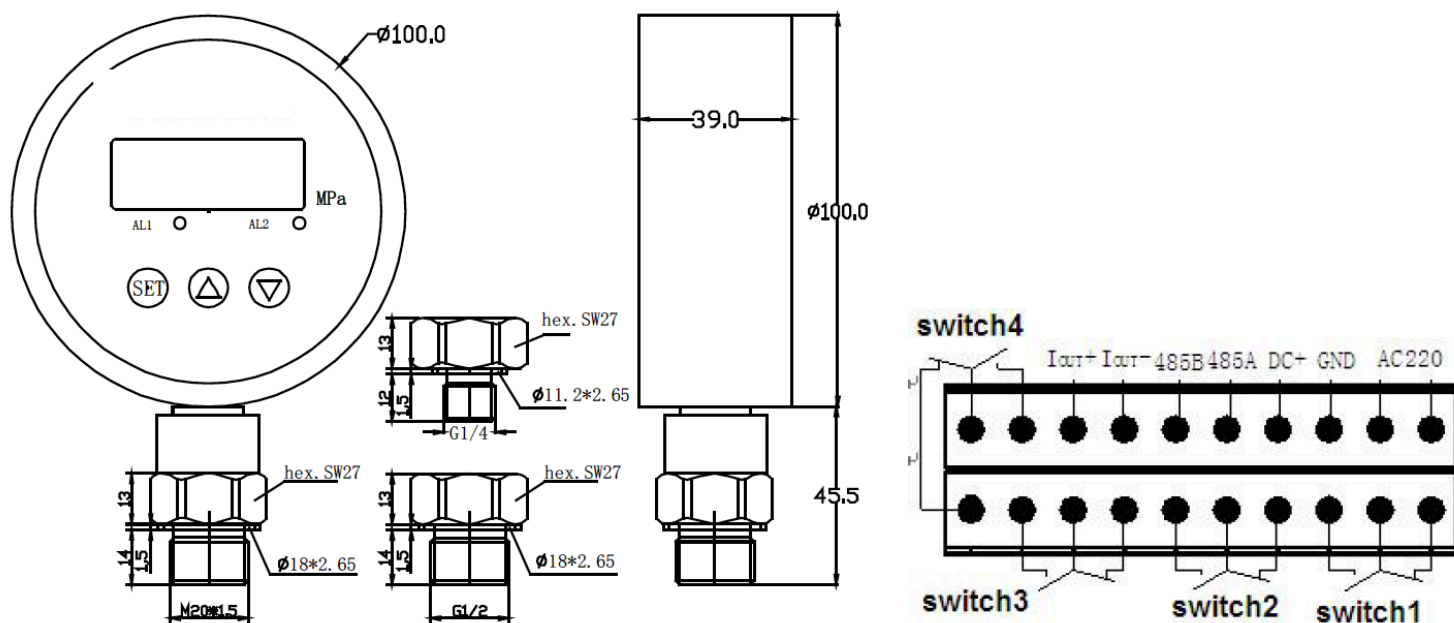
The simple configuration procedure and easy debugging means the TSA-105PST is widely used with great reliability to display, transmit and control pressure in many industries including water, hydraulics and chemical & gas processes.

Specifications

Pressure Range	1...1000 Bar	Accuracy	0.5% F.S.
Over Load	200%	Pressure Type	Gauge
Liability	≤ 0.1% / year	Power	24VDC or 220VAC
Display	0.56" LED	Display Range	-1999 ~ 9999
Thread Connection	G1/4"	Ambient Temperature	-20°C ~70°C
Protection	IP20	Wetted Part	Stainless Steel

Order Details

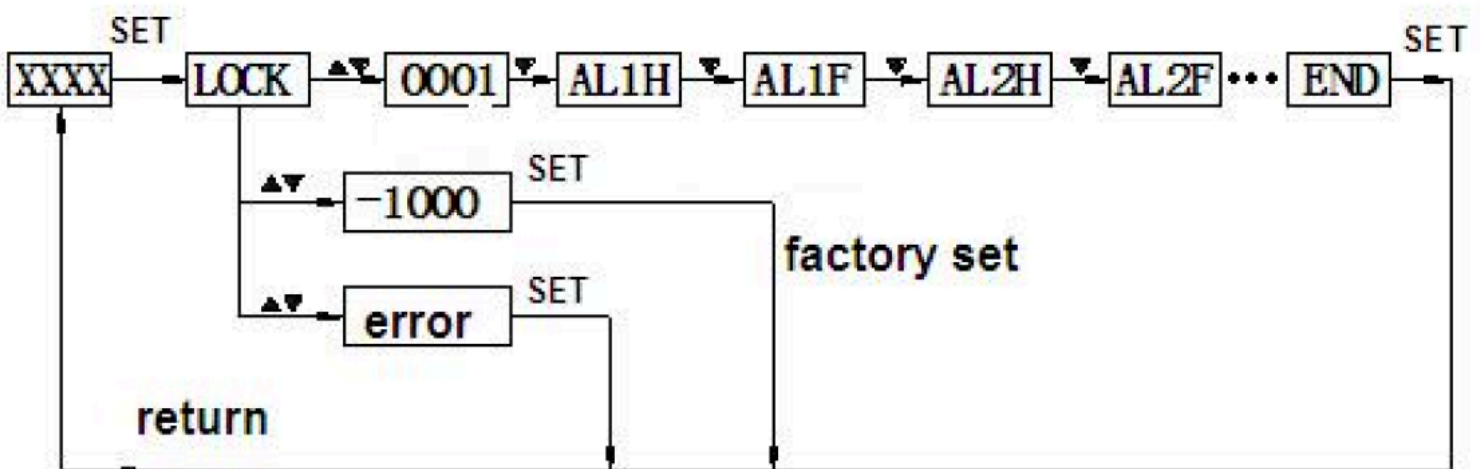
TSA-105PST-0001AB-TR5, TSA-105PST-0010AB-TR5, TSA-105PST-0050AB-TR5,
TSA-105PST-0100AB-TR5, TSA-105PST-0250AB-TR5, TSA-105PST-0400AB-TR5



TSA-105PST

Installation

1. Mechanical connection:
It can be directly mounted in the hydraulic pipe by the connecting thread, G ¼”.
2. Electrical connection (via terminals at the rear).
To avoid electromagnetic interference, please note:
 - A) The cable system should be as short as possible.
 - B) To use shielded wire.
 - C) To keep way from any interference resources.



Setting

- AL1H:** Switch 1 pull-on value (when pressure reaches this value, indicator on).
- AL1F:** Switch 1 release value (when pressure reaches this value, indicator off).
- AL2H:** Switch 2 pull-on value (when pressure reaches this value, indicator on).
- AL2F:** Switch 2 release value (when pressure reaches this value, indicator off).
- AL3H:** Switch 3 pull-on value (when pressure reaches this value, indicator on).
- AL3F:** Switch 3 release value (when pressure reaches this value, indicator off).
- END:** Save then exit.

TSA-105PST

When connection value is higher than disconnection value, it is called upper-limit alarm output (normally open status); when connection value is lower than disconnection value, it is called lower-limit alarm output (normally close status); the deviation between connection and disconnection value is the return difference for the switch point.

Example (How to finish the settings as following):

Set switch point 1 at upper-limit alarm output (normally open status), connect at 4Mpa and disconnect when lower than 3.95Mpa, set switch point 2 at lower-limit alarm output (normally close status), disconnect at 10Mpa and connect when lower than 9.95Mpa.

Enter the menu: Set

AL1H=4.00 AL1F=3.95 AL2H=9.95 AL2F=10.00

- Press "SET".
- "LOCK" sign (remind you to key in password, 0001).
- Press ▲ or ▼ to key in the password.
- Press "SET" to confirm.
- Press ▲ or ▼ as page up or page down to select (AL1H, AL1F, AL2H, AL2F,, END).
- Press "SET" to enter selection menu.
- Press ▲ or ▼ to alter the settings.
- Press "SET" to confirm, or press ▲ or ▼ to enter other menus for other settings.
- Setting finished choose "END" then press "SET" save and exit.
- If 30s no action, auto-exit, without saving changes.

Notice

1. To be stored and used in ambient temperature -20-70°C and relative humidity 0-80%.
2. Connecting thread should be concentric and stable with the pipe system.