**Product Data Sheet**
**2022-2023**

# Digital Temperature Switch

# PEK351

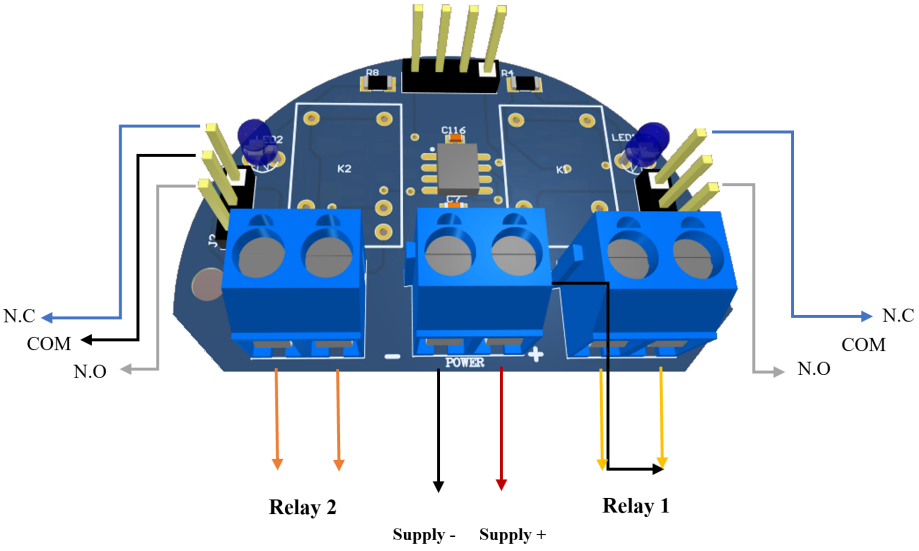
## Device Features

• High measurement Accuracy
• Seven Segment Display
• Power Supply: 10VDC-32VDC
• 4-20 mA output current
• 2 relays with configurable N.C. and N.O. using jumper
• Perform all calibration operations, Hysteresis tuning, Setting the first stage switches and using the display locally
• Designed for use in industrial applications in the field of monitoring and warning systems

## Introduction

PEK351 Intelligent temperature switch is a temperature measurement, display, output, control in one of the intelligent digital display temperature measurement and control products.
The product is fully electronic structure, the front end of the temperature sensor, the output signal by high-precision, low-temperature drift amplifier amplification processing, into the high-precision A/D converter, converted into the microprocessor can be processed digital signals, after the signal operation processing control two-way switch, the control system temperature measurement and control.
The intelligent digital temperature switch is flexible in use, simple in operation, easy to debug, safe and reliable. Widely used in water and electricity, tap water, petroleum, chemical, machinery, hydraulic and other industries, to measure the temperature of the fluid medium display and control.

## Electrical Connection



## Technical Data

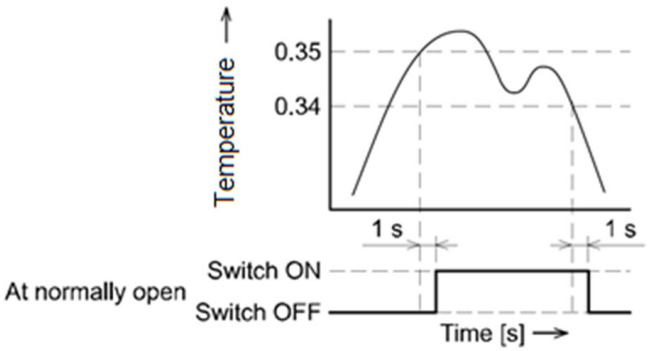
| Product Model | PEK351 |
|---|---|
| Product Description | Digital Temperature Switch |
| Power Supply | Min: 12 VDC |
| | Max: 36 VDC |
| Output | NPN/PNP/Relay |
| Long-term Stability | 0.5 %FS / Year |
| Sensor Type | RTD / T/C / Ω |
| Temp Accuracy | 0.5%FS |
| Protection of Shell | IP 65 |
| Display Type | 4-dig-seven-segment |
| Display Range | 999.9 |
| Enclosure Material | Aluminum die cast |
| Enclosure Model | PEK004 |
| Weight | Approx. 1, 500 g |

## Monitoring

It consists of a 4-dig-seven-segment to display the pressure switch results. 4-dig-seven-segment receives the results from the microprocessor and shows it in allowed ranges.

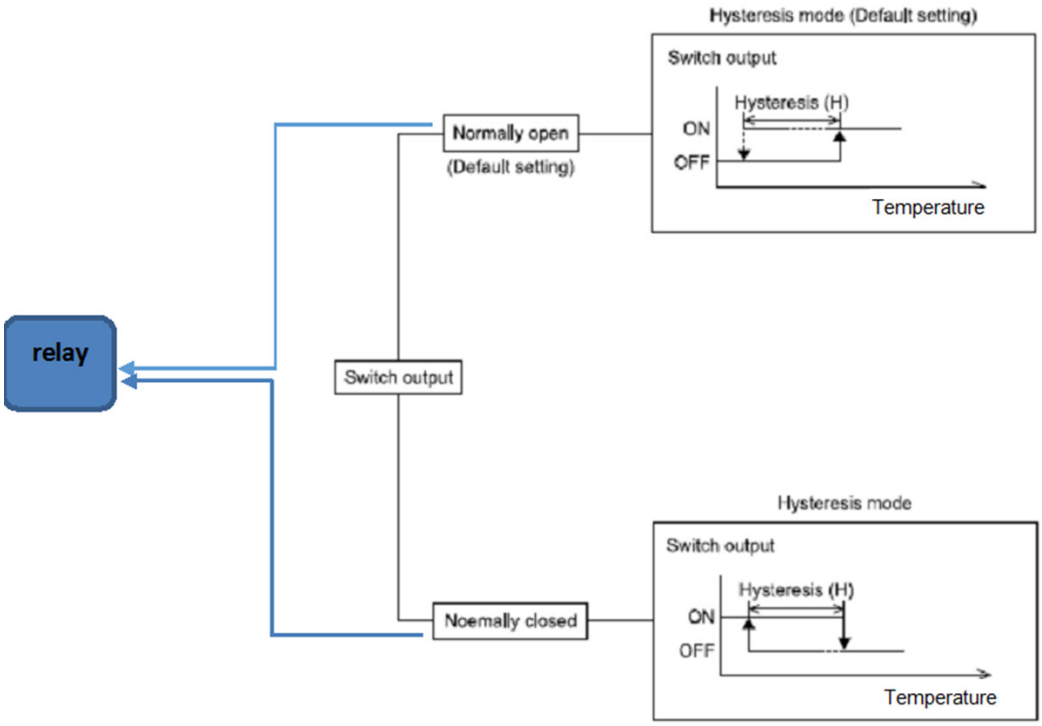
## Operation

When the temperature exceeds the value, the switch will be turned on. When the temperature falls below the set value by amount of hysteresis or more, the switch will be turned off.
For example, the temperature switch is set to turn ON when the temperature exceeds 100 ºC, and turn OFF when it lowers 99 ºC.



## Hysteresis mode

The hysteresis switching function is generally included for all switch variants, whether mechanical or electronic, and whether for the parameter of pressure, temperature, level or flow. Hysteresis is generally understood to be the difference between the switch point and the reset point,




Pars Electronic Kish

Unit, No. 20, Qavam pour Alley, North
Sheikh Bahai St, Tehran, Iran

Tel: +9821-88613511
Fax: +9821-88602547
info@parsek.org
www.parsek.org