

## Description

### General:

“Versatile Trigger Unit” converts a wide range of raw sensor signals into a digital signal with a logical high or low state. To make any signal triggerable, level and hysteresis can be chosen freely in percentage of maximum input voltage or signal peak-peak value. Included special functions make it possible to adopt Versatile Trigger Unit to any measuring equipment available on the market.

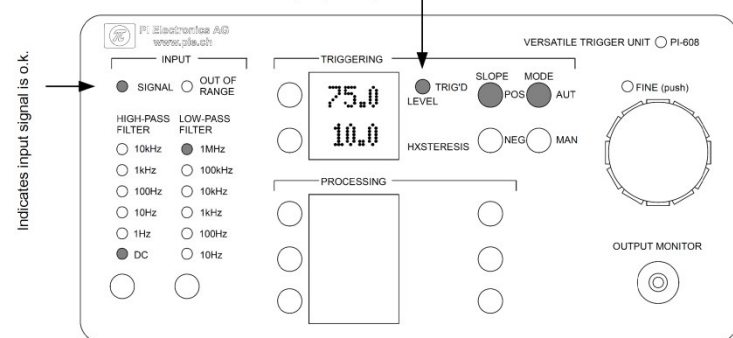
### Features:

- Accurate and precise triggering based on input signals between -24V and +24V
- Setting of level and hysteresis in % of signal peak-peak value
- Setting of level and hysteresis in % of input full scale
- Compact and handy user interface
- Straightforward and easy device setup
- Rugged metal case
  
- Maximum trigger rate of 150 kHz
- Signal bandwidth 1MHz
- 5V and 12V output
- Monitor output
  
- Settable dividing factor for output pulse rate
- Settable time for fixed pulse width
- Settable holdoff time for trigger pulse suppression

## Configuration

**Quick Start Setting:**

Indicates device is working properly.  
(Output o.k.)

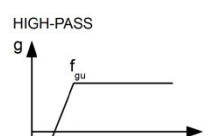


Indicates input signal is o.k.

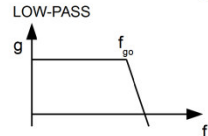
VERSATILE TRIGGER UNIT PI-608

**Input Filter:**

HIGH-PASS




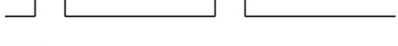
LOW-PASS




**Processing:**


DIVIDING FACTOR:

OFF 


ON 

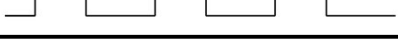
PULSE-WIDTH:

OFF 

ON 

HOLDOFF TIME:

OFF 

ON 

### Technical Data

#### Power Supply:

Supply Voltage:	90-264 VAC, 47-63 Hz
Current Consumption:	50 mA @ 230 VAC
Fuse:	2AT

#### Signal Input:

Isolated from protection ground	(max common mode $\pm 36V$ )
Input Impedance:	100 k $\Omega$
Max. Sig. Amplitude:	$\pm 24 V$
Bandwidth:	1 MHz
Min. Aplitude for Trig.:	200 mV
Max. Trigger Rate Sin:	150 kHz (5V <sub>pp</sub> Sinus)
Max. Trigger Rate Rect:	150 kHz (5V <sub>pp</sub> Pulse, Duty Cycle 50%)
Max. Trigger Rate Pulse:	100 kHz (5V <sub>pp</sub> Pulse, Duty Cycle 5%)

#### Signal Output:

Output Impedance 12V Out:	1 k $\Omega$
Output Impedance 5V Out:	50 $\Omega$
Monitor Output Voltage:	1 V
Monitor Output Impedance:	1 k $\Omega$
Group Delay:	Approx. 1 $\mu s$

#### Physical Data

Size:	190 x 105 x 210 mm <sup>3</sup>
Weight:	2.0 kg

#### Input Filter:

High Pass:	DC – 10 kHz (selectable)
Low Pass:	10 Hz – 1 MHz (selectable)

#### Triggering:

Level:	5 - 95% (relative to Signal pk-pk or input signal span)
Hysteresis:	0 - 50% (relative to Signal pk-pk or input signal span)

#### Processing:

Dividing Factor:	1 - 999
Pulse Width:	0.01 - 9.99 ms
Holdoff Time:	0.01 - 9.99 ms

#### Operationg Conditions:

Temperature:	5 – 50°C
Maximum altitude:	3000 m
Relative humidity:	5 - 95% non condensing