SEIKO EPSON CORPORATION

SENSOR QUARTZ PRESSURE SENSOR

TSU series

- •High resolution and accuracy
- •Excellent repeatability with minimal hysteresis
- •High stability against temperature variation
- •Output frequency is unaffected by IN/OUT cable length.
- •Applications : Various kinds of pressure measurement for industrial use

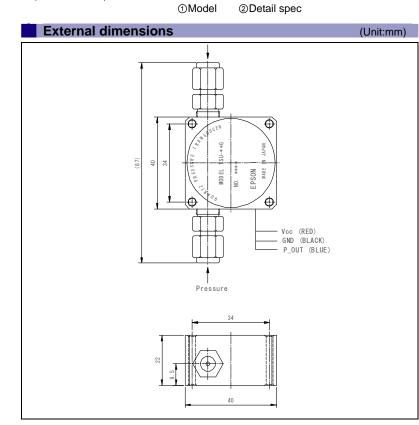


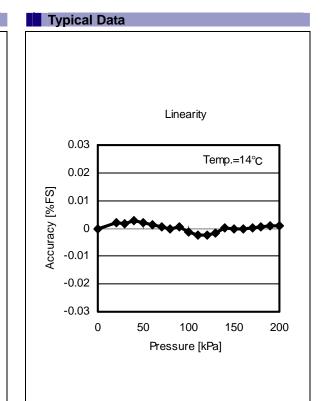
Specifications (characteristics)

Item	Symbol	TSU-20G	TSU-70G	TSU-100G
Pressure measurement range	_	0 to 200 kPa	0 to 700 kPa	0 to 1 MPa
Linearity after linearization		0.01 %FS Max.		
Accuracy		0.023 %FS Max.		
(Linearity, Repeatability, Hysteresis)	—	— 0.023 %r5 Max.		
Operating temperature range	T_use	-10 °C to +70 °C		
Storage temperature range	T_stg	-20 °C to +80 °C		
Tilt correction	_	Equipped		
Built-in temperature sensor	_	Option	Option	Option
Output frequency without pressure	_	39 kHz Typ.		
Maximum frequency change	_	4 kHz Typ. 7 kHz T		7 kHz Typ.
Output voltage	Vpp	3.2 VPP Min. (output load 600 Ω) Clipped sine DC cut		
Supply voltage	Vcc	12 V (Standard)		
Current consumption	Icc	2 mA Typ.(4 mA Typ. : Built-in temperature sensor)		
Pressure input/output port	_	1/8" Fitting		
Weight	_	200 g		
Material		SUS304		



<u>TSU-20G</u> <u>*</u> ① ②





PROMOTION OF ENVIRONMENTAL MANAGEMENT SYSTEM CONFORMING TO INTERNATIONAL STANDARDS

At Seiko Epson, all environmental initiatives operate under the Plan-Do-Check-Action (PDCA) cycle designed to achieve continuous improvements. The environmental management system (EMS) operates under the ISO 14001 environmental management standard.

All of our major manufacturing and non-manufacturing sites, in Japan and overseas, completed the acquisition of ISO 14001 certification.

WORKING FOR HIGH QUALITY

In order provide high quality and reliable products and services than meet customer needs,

Seiko Epson made early efforts towards obtaining ISO9000 series certification and has acquired ISO9001 for all business establishments in Japan and abroad. We have also acquired ISO/TS 16949 certification that is requested strongly by major automotive manufacturers as standard.

Explanation of the mark that are using it for the catalog

ISO 14000 is an international standard for environmental management that was established by the International Standards Organization in 1996 against the background of growing concern regarding global warming, destruction of the ozone layer, and global deforestation.

ISO/TS16949 is the international standard that added the sector-specific supplemental requirements for automotive industry based on ISO9001.

Pb Free	► Pb free.
RoHS	 Complies with EU RoHS directive. *About the products without the Pb-free mark. Contains Pb in products exempted by EU RoHS directive. (Contains Pb in sealing glass, high melting temperature type solder or other.)
For Automotive	► Designed for automotive applications such as Car Multimedia, Body Electronics, Remote Keyless Entry etc.
Automotive Safety	► Designed for automotive applications related to driving safety (Engine Control Unit, Air Bag, ESC etc).

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