

G-TRAN Series Cold Cathode Ion Gauge Sensor Unit [SC1]

G-TRAN series SC1 is a magnetron type cold cathode vacuum gauge.

Since no filament is used, extended life between gauge replacements is assured. Maintenance is expected.

Ease of maintenance reduces the cost of ownership.



Features

- ▶ **Transducer specification**
When the pressure display is not required, the following advantages can be achieved:
Vacuum gauge cost is reduced because the display has been eliminated
Smaller size frees-up control panel space
Wiring is reduced
- ▶ **Maintenance**
Maintenance is greatly simplified
- ▶ **Filament is eliminated**
No damage from exposure to atmospheric pressure
- ▶ **Control output signal**
2 setpoint output
- ▶ **Output signal**
Pressure reading is a 0 to 10V Log output (non-linear output)
- ▶ **Power supply voltage**
Operated by DC24V

Applications

- ▶ Process control in the pressure range of precision vacuum equipment used for semiconductor, optics and electronic parts manufacturing
- ▶ Process control in low vacuum range for industrial equipment such as furnaces
- ▶ Process control in the pressure range for vacuum systems with multiple process chambers, such as in-line sputtering and single wafer processing equipment

G-TRAN Series Cold Cathode Ion Gauge Sensor Unit [SC1]

Specifications

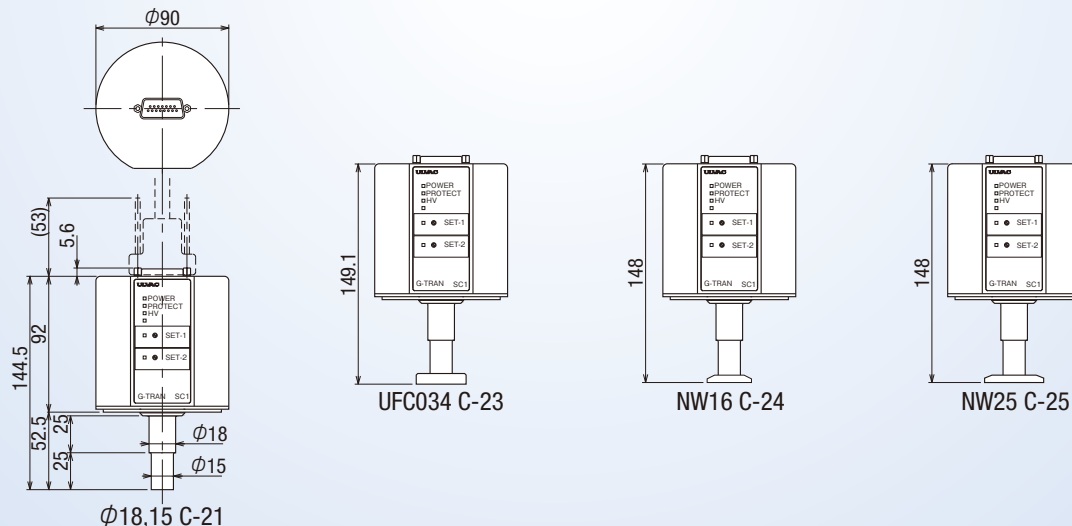
| | |
|-------------------------------------|--|
| Type | Sensor unit |
| Model | SC1 |
| Compatible sensor head | C-21, 23, 24, 25 |
| Measurement pressure range | 1.0×10 ⁻⁵ to 1.0 Pa |
| | 7.5×10 ⁻⁸ to 7.5×10 ⁻³ Torr |
| | 1.0×10 ⁻⁷ to 1.0×10 ⁻² mbar |
| Accuracy | +100%, -50% (1.0×10 ⁻⁴ to 1.0×10 ⁻¹ Pa) |
| | +100%, -50% (7.5×10 ⁻⁷ to 7.5×10 ⁻⁴ Torr) |
| | +100%, -50% (1.0×10 ⁻⁶ to 1.0×10 ⁻³ mbar) |
| Measurement value output | Nonlinear output: 0 to 10VDC |
| Pressure setting adjustment monitor | Nonlinear output: 0 to 10VDC |
| Control input signal | HV ON/OFF |
| Control output signal | Open collector output, negative logic Confirmation of electrical discharge / Setpoint actuating signal 1/2 |
| LED display | POWER, HV, PROTECT, SETPOINT1/2 |
| Operating temperature range | 10 to 40°C (50 to 104°F) |
| Operating humidity range | 15 to 80% (not condensing) |
| Power supply voltage | DC24V±2V, 150mA |
| Input/Output connector | D-sub-15pin (M2.6 screw) |
| Weight | 430g (Excluding sensor head) |
| Standard accessories | Input/Output connector 1pc |
| | Instruction manual 1pc |

* IO and analog GND are not isolated from the power GND.

Dimensions

SC1

Unit: mm



ULVAC, Inc. Components Division

www.ulvac.co.jp/eng

Overseas Sales in Japan TEL +81-467-89-2261

USA : ULVAC Technologies, Inc. TEL +1-978-686-7550
 GERMANY : ULVAC GmbH TEL +49-89-960909-0
 CHINA : ULVAC (SHANGHAI) Trading Co.,Ltd. TEL +86-21-6127-6618
 TAIWAN : ULVAC TAIWAN, Inc. TEL +886-3-579-5688
 KOREA : ULVAC KOREA, Ltd. TEL +82-31-683-2922
 SINGAPORE : ULVAC SINGAPORE PTE LTD TEL +65-6542-2700

PHILIPPINES : ULVAC Singapore Philippines Branch TEL +63-2-828-7700
 VIETNAM : ULVAC Singapore Vietnam Representative Office TEL +84-8-62556762
 THAILAND : ULVAC (THAILAND) LTD TEL +66-2-312-4447
 MALAYSIA : ULVAC MALAYSIA SDN. BHD. TEL +60-3-5121-4700
 INDIA : ULVAC, Inc., India Branch TEL +91-40-27007006

► This catalog is subject to change without notice.
 ► This catalog is published in order to sell this product in overseas. Please see Japanese catalog when purchasing in Japan.