

Controller and Operating Units for Active Sensors

GRAPHIX ONE, TWO, THREE



Controller GRAPHIX with different displays and rear panel (right)

Universal 1 to 3 channel display and operating unit with persistent display of all measurement channels, suited for the active sensors of the THERMOVAC, CERAVAC, linear sensors (DU series), PENNINGVAC and IONIVAC series.

Advantages to the User

- Display range from 1×10^{-10} to 2000 mbar
- 3.5" touch screen display with intuitive menu interface
- Graphic display of the measurement data
- Internal and external (front side USB) storing of measurement data and configuration files
- Leak rate indication based on the pressure rise method
- 6 adjustable variable hysteresis switching thresholds, floating changeover contacts and visual indication of the switching status in the display area, freely assignable to the individual measurement channels
- Different visualisation options (graphs and decimal display with zoom function)
- For connection of all active sensors of other brands
- Degas function for ITR transmitters
- Zero alignment for CTR transmitters
- 3 separate chart recorder outputs 0 to 10 V for each measurement channel (analogue output)
- 4th programmable chart recorder output optional
- RS 232 C / RS 485 C interface with adjustable baud rate
- Relay output for error indication
- Display selectable between mbar, Torr, micron, Pascal or psi
- Compact installation and benchtop enclosure (1/4 19" 3 HU)
- Software update via USB optional
- Languages: English, German, Chinese, Japanese, French; Italian, Spanish, Korean
- Visualisation through LEYASSIST



running on a PC

Connectable Sensors

THERMOVAC

- TTR 211 / TTR 216 S
- TTR 90 / TTR 91 / TTR 91 N
- TTR 96 S / TTR 96 N S
- TTR 100 / TTR 100 S2
- TTR 101 / TTR 101 N / TTR 101 S2 / TTR 101 N 2S
- TTR 911 / TTR 911 N
- TTR 916 / TTR 916 N

CERAVAC

- CTR 90 / CTR 91
- CTR 100 / CTR 100 N
- CTR 101 / CTR 101 N

Linear pressure sensors

- DU 200 / DU 201
- DU 2000 / DU 2001
- DU 2001 rel.

PENNINGVAC

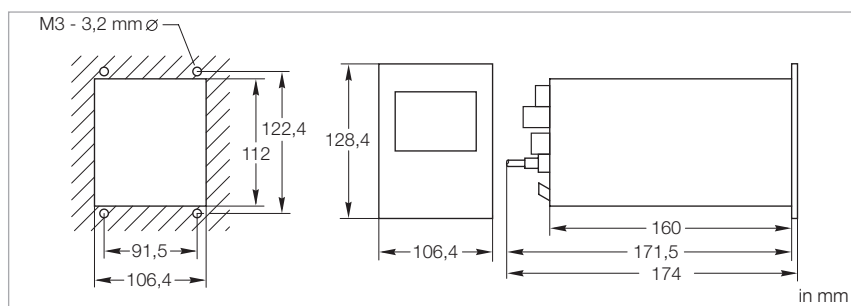
- PTR 90 / PTR 90 N
- PTR 225 / PTR 225 N
- PTR 225 S / PTR 225 N S
- PTR 237 / PTR 237 N

IONIVAC

- ITR 90
- ITR 200 S
- ITR 200 SL

Other brands

- Active sensors with linear or logarithmic output



Front panel cut-out and dimensional drawing for the controller GRAPHIX ONE to THREE

Technical Data

GRAPHIX ONE

GRAPHIX TWO

GRAPHIX THREE

Number of measurement channels	1	2	3
Measured values display	3.5" graph. TFT touch display		
Display range	mbar (Torr) 1 x 10 ⁻¹⁰ to 2000 (0.75 x 10 ⁻¹⁰ to 1500)		
Unit of measurement (selectable)	mbar, Torr, microns, Pa, Psi		
Gas type correction	factor adjustable		
Sensor connection	15-way Sub-D socket and FCC68 (RJ45)		
Sensor power supply	V DC 24 ±5%		
Relay inputs and outputs	25-way Sub-D socket		
Switching threshold	freely assignable to the measurement channels		
Number	6		
Adjustment range	sensor dependent		
Hysteresis	adjustable		
Relay contact	floating changeover contact		
Load rating	1 A / 30 V AC / 30 V DC		
Error message			
Relay contact	floating normally open contact		
Load rating	1 A / 30 V AC / 30 V DC		
Chart recorder output (R _a > 10 kΩ)	0 to 10 V per measurement channel, output characteristic corresponds to the connected sensor, additionally one further chart recorder output can be programmed		
Control input	PTR: high voltage on, ITR 90/200: emission on		
Interface RS 232 C / RS 485 C	9-way Sub-D socket		
Mains connection	V AC / Hz 100 – 240 / 50/60		
Power consumption	W < 50 < 70 < 100		
Nominal temperature range	°C +5 to +45		
Weight	kg (lbs) 1.7 (3.75)		
Protection class	20		
Possible languages	English, German, Chinese, Japanese, French, Italian, Spanish, Korean		

Ordering Information

GRAPHIX ONE

GRAPHIX TWO

GRAPHIX THREE

	Part No.	Part No.	Part No.
GRAPHIX controller including 2 m EURO- and US mains cord	230680V01	230681V01	230682V01
THERMOVAC, PENNINGVAC, CERA-VAC, linear sensors (DU) and IONIVAC transmitter	see chapter "Products", para. "Active Sensors"	see chapter "Products", para. "Active Sensors"	see chapter "Products", para. "Active Sensors"
Connection cables for THERMOVAC and PENNINGVAC (Type A), CERA-VAC (Type B analog, Type C digital and IONIVAC (Type C)	see chapter "Products", para. "Connection Cables for Active Sensors"	see chapter "Products", para. "Connection Cables for Active Sensors"	see chapter "Products", para. "Connection Cables for Active Sensors"
Adapter USB/RS 232 C	800110V0103	800110V0103	800110V0103
LEYASSIST GRAPHIX visualisation and operating software, including data storage and export (CSV file)	230440V01	230440V01	230440V01

LabView® ¹⁾ driver, online via download available

¹⁾ LabView is a registered trademark of the company National Instruments