FYRA

Vacuum Controller



Simplifying Vacuum Science

FYRA is a plug-and-play platform for fast integration of vacuum components. Modular and scalable, it works with your PLC so you can seamlessly add process control and system status to your vacuum system.

Piezo, Thermal, Ionization, Combination and Capacitance Gauges



Bleed, Solenoid and Pneumatic Pilot Valves



The Power of 4

Fyra is Swedish for four. One versatile controller with a touchscreen and dial interface, built on four pillars to measure and control from atmosphere to high vacuum.

Sensors

Powers and reads piezo, thermal, ionization, combination and capacitance gauges, plus Type K and Type J thermocouples.

Valves

Drives multiple isolation, throttle and bleed valves, with closed-loop pressure control upstream or downstream.

Control

Set it up by touch and dial. Setpoints and relays trigger alarms and activate other subsystems.

Communication

Works with your PLC over USB, RS-232 and 0-10 V analog I/O. No custom interfaces: set up with DigiVac DVCUP, LabVIEW or Python.

Let DigiVac help you build it.

Tell us about your process. We will help you define your needs and kit the components your system requires.

Scan to see FYRA in action

1020 Campus Drive, Morganville, NJ 07751
Office: 732-765-0900 - sales@digivac.com - www.digivac.com

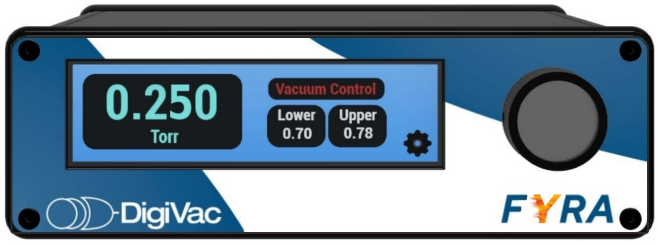
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FYRA

Example of a FYRA Application
Vacuum Alarm & Notification



Configured as a vacuum alarm, FYRA reads a 775i isolated piezo sensor and drives a red/green light tower and buzzer: green while in vacuum range, red with an audible alarm when it drifts out of range, so operators can see status from across the production floor.

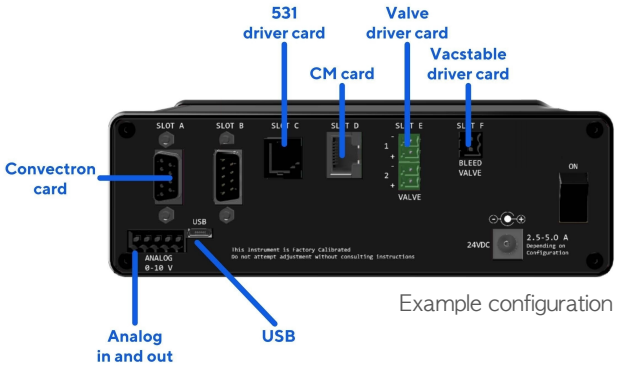


Single-sensor display



3-sensor rack mount display

Each FYRA display shows 1, 2 or 3 sensor readings per screen.



Example configuration

SPECIFICATIONS

Power	100-240VAC 50/60Hz
Sensor / Port	Per sensor(s) selected
Range	10^{-10} to 1000 Torr (sensor dependent)
Units	Torr, mbar, kPa, microns, millitorr, mmHg, hectopascal
Mount	Pole mount; bench top; rackmount
Display	3.9″ touch screen display
Dimensions	6.5″x6.5″x2.5″
Relay Rating	7 amp, 250 Volt (if applicable)
Communication	USB, RS-232, DVCUP command interface, 0-10 V analog in, 2 x 0-10 V analog out
Valve Support	EM solenoid type, 24V <24W, VacStable
Certifications	UL, CE, CSA

SENSORS SUPPORTED BY FYRA

Agilent	531, 536, PVG-500, PCG750, FRG700, FRG-720, and CDG-500 1, 10, 100 and 1000 Torr capacitance manometers
Lesker	KJL HGC, Carbon XCG, ACG, Pirani and Cold Cathode Pirani
Sens4	VPM-4, VPM-5, VPM-7, VDM-5, VDM-7, VPM-15 and VPM-17
MKS	Convectron 275071 (1/8″ NPT), 275203 (KF16); all Baratron capacitance manometers; 902B and 925C
DigiVac	SEN-VGT500, SEN-775i, Quantum (SEN-DPP, SEN-DCP, SEN-DPCP)
Pfeiffer	PKR251, PKR360, MPT 200 AR, TPR 270 and TPR 280
Inficon	PSG500, PSG550, Porter, SKY, Stripe, MAG, MPG, MPG400 & MPG500
Edwards	WRG200-X, AIM200-X, ASG2, APG100, APG200-XM
Thermocouples	Type K and Type J

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