

GENERAL EQUIPMENT

Data Acquisition and Control Unit (Data Logger)



PGE-140.1 is a high-performance multi-channel data acquisition and control unit featuring 8 independent differential analog input channels with a voltage range of ± 2500 mV, providing real-time display of readings and graphs for precise monitoring and analysis. It is fully compatible with most analog sensors, including load cells, pressure transducers, strain gauges, LVDT/potentiometric displacement transducers, and supports internal calibration formulas for thermocouples, 4–20 mA transducers, and mV/V sensors. With an effective resolution of 65,000 points and a sampling rate up to 500 readings per second per channel, PGE-140.1 ensures high accuracy and fast response. The unit is equipped with an onboard ambient temperature sensor, 8 digital inputs for limit switches, and 8 digital outputs with relay drivers. Input gain is software adjustable from 1 $\times$ to 128 $\times$, allowing flexible adaptation to different applications. Data communication is available via USB to PC (general or customized software) and RS485 for HMI connection, while Micro SD card support enables local data storage. Additionally, PGE-140.1 includes two independent PID control loops up to 500 Hz with ± 10 V output and supports connection to digital sensors such as incremental encoders, making it an ideal solution for advanced measurement, control, and automation systems.

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PGE-128



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PGE-133



Electromagnetic Sieve Shaker

PGE-412.EM

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