

Compressors that can communicate!



In keeping pace with industry's focus on high-tech advancements, Elgi has developed the Neuron controller with in-house engineering to control medium to large size rotary compressors. This dedicated microprocessor accurately monitors the compressor and ensures precise capacity regulation. The custom designed Neuron controller from Elgi also allows communication capability.

Elgi Neuron is the first ever compressor controller to feature an in-built Mimic. The Mimic panel is a pictorial representation of various components of a compressor. It enables semi-skilled personnel to easily detect the trouble allowing them a higher degree of control over the compressor operation. The LED indicators below each component provide visual indication of fault status of the particular component at the detector location. The indicator flashes red light when the parameter is close to maintenance schedule or of abnormal function. The Neuron automated process control system thus eliminates human errors and gives early warning of fault indications through continuous monitoring of pressure and temperature.

The Neuron control system of the compressors is widely used in various industries using DCS/SCADA. SCADA (Supervisory Control and Data Acquisition) systems allow centralized personnel to perform remote monitoring and control of widely dispersed equipment. This controller by interfacing with the DCS (Distributed Control System) can monitor the operations easily and warnings regarding any failure are conveyed to the plant personnel immediately through the use of networked computers. These automation systems are capable of controlling multiple compressors and enables communication across the compressors through DCS control stations.

The integrated automated system of Neuron has revolutionized the compressor unit operation by providing Remote Analysis. Service and maintenance information is built into the controller for enhanced accuracy and convenience. The RS 485 communication port allows for communication and remote monitoring. No matter where the compressor unit is, the remote diagnostic software can send e-mail reports to the central supervisory station of the Elgi customer care centre pinpointing the faults and failures in compressors from the customer site itself. Without traveling to the compressor location, the service engineers at Elgi can conduct diagnosis, detect malfunctioning components and evaluate unit performance.



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