Scientech

Flow Measuring WorkStation

Scientech 2474

Scientech 2474 Flow Measuring WorkStation solution consists of an instrument panel and a different type of flow sensor area that is useful for study of the principal and working of specialized dedicated flow measuring setup. This system comprises of the latest components, which reflect the newest technological innovations in this field. Flow Measuring WorkStation assists students and industry professionals in understanding the concepts and workings of flow measuring instruments. This further enables them to learn advance and more complex flow process; and contribute to the growth of the instrumentation area.

Flow Measuring WorkStation includes different types of Flow Sensors including, Turbine Flow Sensor, Wheel Flow transmitter, Rotameter, Sump Tank & Acrylic measuring tank. It encompasses safety measures such as emergency shutdown and over heating protector. Scientech 2474 allows the user to perform a wide range of experiments while learning intricate concepts in an interactive and simple manner.

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Features

- Different Types of Flow Sensors like, Rotameter, Turbine Flow Sensor, wheel flow transmitter .
- Start, Stop, Pump, Solenoid Valve, Visual Indicator, Audio Indicator, Pump, and Solenoid Valve
- Real time DAQ Interface with ADC and Digital input/output
- Control Valve
- Industrial process control design
- Heavy duty bench Workstation
- Electrical Control Panel
- Interface with Ethernet based DAQ
- 8 Channel 24 bit ADC DAQ
- Data Logging
- Acrylic Measuring tank with Scale & Sump Tank
- User friendly, self explanatory system
- Enhanced electrical safety consideration
- Powder coated frames with standard instrument mounting
- Caster Wheel (with locking mechanism) provided at the legs of the Workstation for easy movement
- MCB with AC supply for safety purposes
- Product tutorial-Online

Scope of Learning

Study and use of :

- Characteristics of Turbine Flow Sensor
- Characteristics of Rotameter
- Characteristics of Wheel Flow Transmitter
- Characteristics of Control Valve
- P (Proportional Mode) using Software for Flow Control
- PI (Proportional Integral Mode) using Software for Flow Control
- PID (Proportional Integral Derivative Mode) using Software for Flow Control

Technical Specifications

DAQ	: 1no.(Data Acquisition System)
Analog Inputs	: 4 nos.
Digital Inputs	: 4 nos.
Digital Outputs	: 4 nos.
ADC Resolution	: 24 Bit
Two Unity Gain Amplifier	: 0 to 5V
Ethernet	: Yes
Data Logging	: Yes (PC based)
RS485 Interface	: Yes (PC based)
Rotameter	: 1no.
Range	: 0 to 2500 LPH
Material	: Acrylic
Mounting	: Horizontal
Wheel Flow Transmitter	: 1 no.
Supply	: +24V DC
Output	: 4 to 20mA
Flow	: 0 to 30LPM
Turbine Flow Sensor	: 1no.
Supply	: +5V DC
Output	: 0 to 5V
Flow	: 0 to 30 LPM
Control Valve	: 1 no.
Pump	: 1no.
Power	: 0.5 HP
Supply	: 230V
Solenoid Valve	: 1no.
Supply	: 230VDC
Indicator	: 4 nos.
Push to on Switch	: 6 nos.
Toggle Switch	: 3 nos
Digital Panel Meter	: 2 nos.
Supply	: 230V.
Display	: 4 Digit display
Input	: 4-20mA Current
AC Voltmeter	: 1 no.
Voltage	: 10 - 450Vrms
Accuracy	: ± (1% reading + 2 digits)
AC Ammeter	: 1 no.
Current	: 0.2 - 10Arms
Manual Valve	: 8 nos.
Measuring Tank	: 60 Liter
Sump Tank	: 100 Liter
Caster Wheels	: 8 (4 with lock & 4 without lock)
Size	: 75mm
Dimension in mm	: H1640 x W 1320 x D 765 (2474) H1135 x W 1408 x D 715 (for Sensor Unit)
Included Accessories	: 4mm Patch Cord 18"-15 nos., Ethernet Cable-1 no.

Windows OS Based PC (optional)

Note: Windows OS Based Computer is required to explore DAQ experiments

Subject to Change

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