

Sensor Lab

JMD 1123

JMD 1123 Sensor Lab comprises of Sensors and Transducers which provide the fundamental knowledge of sensing Light, Pressure, Temperature, IR and many more non electrical entities.

Since, most of the sensors give signal which show small variation and are of low level output, these signals need to be converted into a form that is measurable and could be used efficiently. The lab consists of various signal conditioning blocks which perform amplification, filtration, signal conditioning and all the required operations which are acceptable to the input devices.

7" capacitive touch screen LCD is inbuilt for output device with easy-to-use instructions and graphical user interface, to display waveforms, to plot characteristics with the help of graphs, for reading operating manual and watching tutorials. It does not require external Oscilloscope for measuring, or observing the output and characteristics of the Sensors interfaced.

Features

- IoT enabled Linux based 7" Graphical touch LCD with inbuilt cortex ARM processor & DAQ for acquiring analog data and software for viewing the output waveforms, reading the operating manual, tutorial etc, with USB storage and HDMI output. Ethernet port to connect real world.
- Inverting, Non-Inverting, Power, Current, Instrumentation and Differential Amplifier, Buffer, Frequency to Voltage, Voltage to Frequency, Current to Voltage, Voltage to current Converter, High Pass and Low Pass Filter, Buffer, LED , Buzzer, Relay, Square Wave generator.
- Onboard signal conditioning
- Inbuilt DAQ
- User can design any circuit on bread board and test
- USB Port for Keyboard and Pendrive interface
- Ethernet port
- HDMI Port
- Data Logging in .csv format
- On board Graph capture and store
- Office tools are inbuilt to view PDF and doc files



J.M.D. SALES CORP.

ISO 9001:2015 Co.

Regd. Office: Plot No- 1449/82, 3rd Floor, Main Road, Durgapuri, Shahdara, Delhi-110093

Phone : 9870403664

Email : info.jmdsalescorp@gmail.com

GST No: 07ALNPG4664N1ZI

Technical Specification

• On board display	: 7" capacitive touchscreen
• Connectivity	: USB, Ethernet & HDMI
• Square Wave Generator	: up to 40KHz
• Low Pass Filter	: up to 30KHz
• High Pass Filter	: After 40KHz
• Inverting Amplifier	: Variable Gain 1-10
• Non Inverting Amplifier	: Variable Gain 2-10
• Differential Amplifier	: Variable Gain 1-10
• Instrumentation Amplifier	: Variable Gain 10-20
• Frequency to Voltage Converter range	: Input : 1-10KHz Output : 1-10Volt
• Voltage to Frequency Converter range	: Input : 1-10Volt Output : 1-10KHz
• Current to Voltage Converter range	: Input : 4-20mA Output : 0-5Volt
• Voltage to Current Converter range	: Input : 0-5Volt Output : 4-20mA
• Analog/Digital Converter	: 4 Channel (0-5V)
• Digital/Analog Converter	: 1 Channel (0-3.3V)
• Input/Output Ports	: 4-IP / 4-OP
• Operating Voltage Range	: 0 – 3.3V
• LM35	: 10mV/ °C
• Platinum RTD	: 100 at 0°C (Temp. coefficient 0.385 /°C)
• K Type Thermocouple	: -200°C to 1250°C
• J Type Thermocouple	: -200°C to +1200°C
• AD590	: -55°C to +150°C
• NTC Thermistor	: 4.7K
• BPX65 Photo Diode	: 500nm – 1100nm
• L14G1 Photo Transistor	: 500nm – 1100nm
• Photovoltaic Cell	: 500mV – 580mV
• Dimensions (mm)	: W 326 x D 252 x H 52
• Power Supply	: 100V - 240V AC, 50/60Hz
• Weight	: 1.5Kg (approximately)
• Operating Conditions	: 0-40C, 85% RH
• Package contains	: Patch cords 16"-30nos TechBook Power Supply-1no 5V 3Amp adaptor-1no SS01, SS02, SS03-1no each +12V Power Supply-1no

J.M.D. SALES CORP.

ISO 9001:2015 Co.

Regd. Office: Plot No- 1449/82, 3rd Floor, Main Road, Durgapuri, Shahdara, Delhi-110093

Phone : 9870403664

Email : info.jmdsalescorp@gmail.com

GST No: 07ALNPG4664N1ZI