



OXYGEN MASK TEST RIG

IEICOS Oxygen Mask Test Rig

IEICOS Oxygen Mask Test Rig suitable for testing of various types of masks both with and without chin support such as Mark I, Mark II, Mark III, Hawk, CFF, Helicopter, etc., in a single test rig for expiratory test, inspiratory test, compensatory test, inward and outward leakage test and anti-suffocation valve test as per test schedule.



Pneumatic Lines, Manual Pressure Controllers, Manual Flow Controllers, Solenoid valves, head forms, interface block/adapters, piping, etc.:

IEICOS Oxygen Mask Test Rig is designed such that the masks can be mounted on head form with flexible rubber surface around the nose to ensure tight fitting of the mask. Two head forms – one small (nose to chin height of 11.2 cm, width of 11.4 cm) and one large (nose to chin height of 13.2 cm, width of 11.4 cm) are provided to mount the masks. Only one mask can be tested at one time and necessary solenoids required for switching between head forms are provided. IEICOS provides a ribbon strap around the head form for installation of press-studs which helps to install masks on to the head form. The end clamps for press-studs and the connectors for the masks are provided.

IEICOS Oxygen Mask Test Rig consists of both positive pressure line and negative pressure line for conducting the tests mentioned above. Necessary manual pressure regulators, manual flow controllers of ranges 200 lpm and 1 lpm with flow meters, pressure transducers, solenoid valves, interface block are provided as suitable for conducting the above tests. A compensatory port which is parallel but drawn from the same positive pressure line output, required for the compensatory function is provided at the interface block.

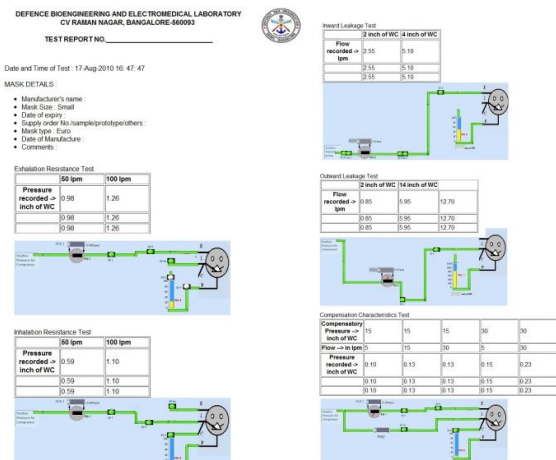
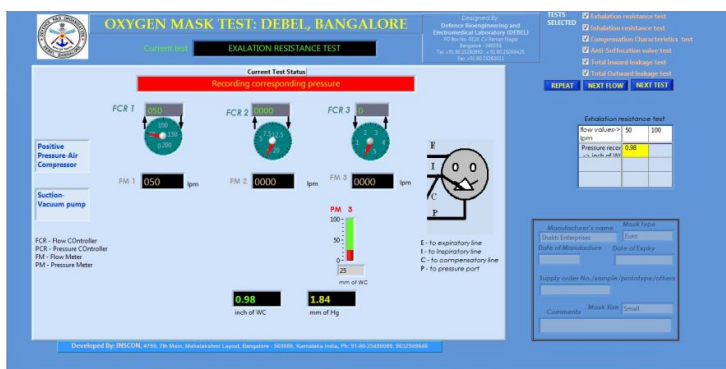
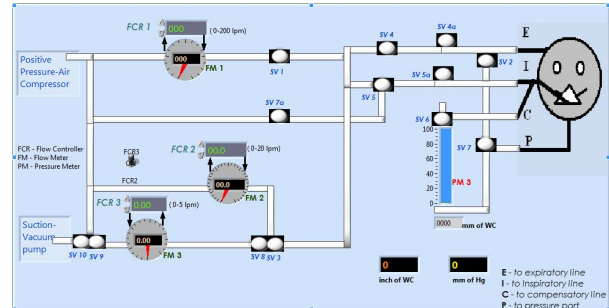
IEICOS provides adapters suitable for 3 to 4 types of end connectors of the inspiratory line hose. One adapter of each type is provided. The interface block has ¼ NPT threaded connections.

IEICOS Oxygen Mask Test Rig is designed to run with air medium. A compressed air line for positive pressure at 5 Kg/cm² must be provided by the user. IEICOS provides a small vacuum pump to use with the suction line.

Specifications:

1. The test rig has provision to get connected to compressed air in the range 0-7kg/cm² and the output pressure in the range 0-5kg/cm² through a pressure controller in the range 0-200 lts/min
2. The test rig has pressure and flow sensors with digital indicators to measure back pressure during mask tests in the flow range 0-200lts/min. The pressure measuring devices has differential pressure grading in the range 0-1200, 0-100, 0-10mm WG
3. A separate -ve pressure line is provided with vacuum generator capable of generating -ve pressure up to 27"WG and suitable measuring device for measuring the negative pressure shall be provided.
4. A separate compensatory pressure line is provided with set pressures 15"WG and 30"WG. These set pressures does not vary during the test of compensatory characteristics at flow ranges 5, 15, 30 and 100 LTS/min
5. The mask is firmly mounted on the head form with good fitting so that during any functional test for flows between 0-200lts/min, the reflected edge of the mask will not develop any leak around the contours of the face mask interface.

- Software:**



203, 12th Main Road, 3rd Phase, Peenya Industrial Area,
Peenya, Bangalore-560058, Karnataka, India.
Phone : 91-80-28394520 Fax : 91-80-28371386
Email: info@ieicos.com Web Site: www.ieicos.com

2/2