Therapy Equipment Ltd
UNIT 1, CRANBOURNE AVENUE, CRANBOURNE INDUSTRIAL ESTATE
POTTERS BAR, HERTS, EN6 3JN TEL: 01707 652270 FAX: 01707 652622
Certificate Number MD 595894

AIR DIRECT DIAL FLOWMETER

0-15LPM Air Direct Dial Flowmeter

INSPECTION

Remove the Air Direct Dial Flowmeter from the packaging and inspect for damage. If there is any damage, DO NOT USE, and contact Therapy Equipment Ltd.

FUNCTION/INTENDED USE

⚠ The Air Direct Dial Flowmeter should only be used by Hospital personnel authorised to administer gases to a patient.

⚠ Read all instructions before using – DO NOT USE the Air Direct Dial Flowmeter if you do not understand the instructions given in these User Instructions.

The function of the Air Direct Dial Flowmeter is to provide a calibrated supply of gas to the patient from a regulated gas supply.

The Air Direct Dial Flowmeter is calibrated to operate from an inlet pressure of 60PSI (4Bar). Care should be exercised to ensure the inlet and outlet pressure are maintained in order to maintain the accuracy of the flowrate.

The unit should be operated and stored in a dry clean environment within the temperature range of -10°C to +40°C. The use of the unit is temperatures outside of these may result in inaccuracy of flow.

USER INSTRUCTIONS

1. Ensure that the Air Direct Dial Flowmeter is fitted with a tubing nipple, so that the patient tubing can be connected.
2. Connect the Air Direct Dial Flowmeter into the Medical Air Wall Outlet.
3. If there is any sound of gas hissing, examine for leaks. If leaks are found please return to the manufacturer.
4. Turn the Control Knob in a clockwise direction, and confirm that there is gas flow coming from the tubing nipple
5. Push the Patient Tube over the Tubing Nipple outlet, and adjust the Air Direct Dial Flowmeter setting to the requisite flow. Do not attempt to set the Air Direct Dial Flowmeter between defined settings as this will result in either flow inaccuracies or no flow at all.

It is the responsibility of the end user to ensure that the correct unit and flow is selected to suit the patient concerned. Therapy Equipment cannot be held liable to any incorrect selections.

CARE: The unit may become damaged and provide inaccurate flows, if the end-user attempts to force the unit directly from OFF to 15LPM. The flowrates should only be increased by turning the Control Knob in a clockwise direction only.

ACCURACY

In accordance with ISO 15002:2008:

Air Direct Dial Flowmeters supplying flowrates in excess of 0-1 Litres Per Minute (LPM) are supplied to an accuracy of +/- 10% of the indicated value or 0.5-LPM whichever is the greater.

0-1 LPM Air Direct Dial Flowmeters are supplied to an accuracy of +/- 10% of the full scale

HUMIDIFIERS/NEBULISERS

Humidifiers/Nebulisers maybe used with the Direct Dial Flowmeter however a Right Angled Nebuliser Adapter (5050-17) will be required.

CLEANING INSTRUCTIONS

Wipe over the outside of the unit and the gas supply hose with an alcohol or disinfecting wipe. If you suspect that the unit is contaminated, remove it from use and refer the device to the appropriate department. We do not recommend the use of Detergent Based Hard Surface Wipes.

USE OF ANIMAL TISSUES/PHTHALATES/ANTIMICROBIAL PROPERTY

The Air Direct Dial Flowmeter Range has not been manufactured using any Animal Tissue or Phthalates. Hose Assemblies when fitted do have an Anti-Microbial Biocidal Property – full details are available on request.

WARNINGS

DO NOT use Oils, greases, or any combustible materials on or near this Direct Dial Flowmeter

DO NOT autoclave

DO NOT attempt to disassemble this product while under pressure

DO NOT attempt to set the Flowrate between settings as this will result in flowrate inaccuracies or no flowrate.

THE PRODUCT does not supply any visual indication of flow

TROUBLESHOOTING

RISK	RISK ANALYSIS	ACTION
Loose Connection/Leaking	Incorrect flowrate from the Air Direct Dial Flowmeter	♦ Ensure that all connections to the Air Direct Dial Flowmeter are tight ♦ Refer to manufacturer
Incorrect Scale/Flowrate	Incorrect dosage of Air being supplied	♦ Refer to manufacturer

TECHNICAL SPECIFICATION

Inlet connection - 3/8” BSP Nut/Nipple or BS Medical Air (4 Bar) Probe

Constitution Materials -

Body	-	Polycarbonate
Control Knob	-	Polycarbonate
Metering Drum	-	Brass
Inner Probe	-	Stainless Steel

REPLACEMENT PARTS DETAILS

A Full range of spares are available (see Catalogue), however the following are frequently requested:

Bayonet Tubing Nipple	Part No. 5050-02-02/BLACK
0-15LPM Control Knob	Part No. 5050-10-02

EXPLANATION OF SYMBOLS (where used)

	Manufacturer Symbol		Serial No. Symbol
	Year of Manufacture Symbol		Use no oil or grease in the operation/maintenance of the Flowmeter
	EU Authorised Representative		

PREVENTATIVE MAINTENANCE

The unit is supplied with a 7 Year Function warranty, and should be included in an annual service inspection.

Particular care should be exercised to ensure that the internal workings are not exposed to lubricants/grease not recommended by Therapy Equipment Ltd. The Air Direct Dial Flowmeter should never be disassembled whilst under pressure.

- The unit should be wiped with an Alcohol or Disinfecting Wipe to clean
- A check should be made to ensure the unit is damage and leak free.
- The Air Direct Dial Flowmeter, particular the low flow ranges should be checked for accuracy, using a flowtube calibrated at atmosphere on an annual basis.

It is estimated that the Direct Dial Flowmeter has a maximum life of 10 years, and should be replaced after this time.

 Therapy Equipment Ltd Unit 1 Cranbourne Avenue, Cranbourne Ind Est Potters Bar, Herts. EN6 3JN

 MedNet EC-REP GmbH, Borkstrasse 10, 48163 Muenster, Germany

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