TESUCO®

TECHNICAL SUPPLIES COMPANY

MEDICAL

QUALITY GAS EQUIPMENT

tesuco.com.au

TESUCO®

TECHNICAL SUPPLIES COMPANY

We Thank You For Choosing Our Quality Gas Equipment

Beginning in 1988, Tesuco® has established itself as a specialist equipment supplier for all gas welding, heating and cutting applications. Tesuco® is proud to be 100% Australian owned and has been quality endorsed by SAI Global to the AS/NZS ISO 9001 Standard since 1995.

Tesuco® continues to introduce new and exciting products from the best Australian and overseas manufacturers. This booklet introduces you to our range of welding, heating and cutting equipment, available through our extensive distributor network both here and abroad.

Tesuco® is sole distributor for GENTEC range of Medical gas equipment throughout Australia and the Pacific. GENTEC manufactures a wide range of gas equipment for all medical applications across oxygen therapy, respiratory gas equipment, suction equipment, bedhead systems, alarms and pipeline products. GENTEC is ISO9001 accredited and the medical range of products are CE marked and manufactured to rigorous International Standards in a large modern ISO 13485 facility.

Tesuco® ensures that all medical products meet the relevant Australian Standards or accepted alternative International standards and all medical gas equipment in the Tesuco® range are listed on the ARTG. Copies of certificates can be supplied upon request.

Only trained operators may use this equipment.

DID YOU KNOW?

Our name TESUCO® comes from **TE**chnical **SU**pplies **CO**mpany.

Scan QR code to view our complete range of medical equipment.

Medical
Regulators

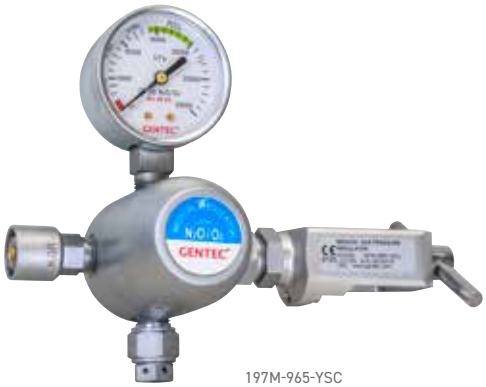
Meets AS 3840.1

197M-870-YSC

197M-950-YSC

197M-910-YSC

197M-940-YSC



197M-965-YSC

STANDARD

The 197M regulators are fabricated of high-quality brass and have a Matte Chrome body. Key features include, adjustable yoke system, easy to read pressure gauge made to AS 4706, Self-Sealing outlet makes sure no gas will flow until the flowmeter is connected. Pin index yoke 'T' screw includes a clip to prevent it from being removed completely. Regulator comes with a manual and a one year warranty against manufacturers deflect. The 197M Regulators are listed on the Australian Register of Therapeutic Goods (ARTG).

SPECIFICATIONS	197M-870-YSC	197M-950-YSC	197M-910-YSC	197M-940-YSC	197M-965-YSC
Gas service	Medical Oxygen	Medical Air	Nitrous Oxide	Carbon Dioxide	50/50 Oxy/Nitrous Oxide
Set pressure	400 kPa	400 kPa	400 kPa	400 kPa	400 kPa
Q1 Valve	130 L/min	130 L/min	130 L/min	130 L/min	130 L/min
Max. flow	300 L/min	300 L/min	300 L/min	300 L/min	300 L/min

Medical
Click Style Regulators

286MB-15LYA

286MB-25LY2A

VARIABLE THERAPY REGULATORS
Click Style

These click flow regulators are manufactured with a chrome plated brass body, with brass chamber. These Regulators are listed on the Australian Register of Therapeutic Goods, comply with all relevant Australian Standards*, and have passed the oxygen flammability test.

**Note: Flow tolerances required by AS 3840 are such that at 1/32 and 1/16 Lpm the tolerances are lower than the repeatability achievable between different test equipment or operators.*

Meets AS 3840.1

SPECIFICATIONS	286MB-4LYA	286MB-8LYA	286MB-15LYA	286MB-25LYA	286MB-25LY2A
Gas service	Medical Oxygen	Medical Oxygen	Medical Oxygen	Medical Oxygen	Medical Oxygen
Max. inlet pressure *(p_1)*	3000 psi	3000 psi	3000 psi	3000 psi	3000 psi
Set pressure	400 kPa	400 kPa	400 kPa	400 kPa	400 kPa
Flowrate	4 L/min	8 L/min	15 L/min	25 L/min	25 L/min
Flow selection settings	0, 1/32, 1/16, 1/8, 1/4, 0.50, 0.75, 1, 1.5, 2, 3, 4 L/min	0, 0.5, 1, 1.5, 2, 2.5, 3, 4, 5, 6, 7, 8 L/min	0, 0.5, 1, 2, 3, 4, 5, 6, 7, 8, 10, 15 L/min	0, 0.5, 1,2, 4, 5, 6, 8, 10, 15, 20, 25 L/min	0, 0.5, 1,2, 4, 5, 6, 8, 10, 15, 20, 25 L/min
Outlet	1 x hosebarb (flow controlled)	1 x hosebarb (flow controlled)	1 x hosebarb (flow controlled)	1 x hosebarb (flow controlled)	1 x hosebarb (flow controlled) 2 SIS outlets (full flow)

CFM130-15LE-SIS

FLOWMETER
Click Style

The CFM Series Flowmeters are a compact click adjustable flowmeter with an aluminium casing. The outlet is 1/4" BSP with a standard hose nipple with gas specific colouring. The units are listed on the Australian Register of Therapeutic Goods.

SPECIFICATIONS	CFM-15L-SIS	CFM130-15LE-SIS
Gas service	Medical Oxygen	Medical Oxygen
Calibration pressure and value	400 kPa	400 kPa
Outlet fitting	1/4" BSP male & hose barb	Hose barb
Flow rate settings	0, 0.5, 1, 2, 3, 4, 5, 6, 7, 8,10 & 15 L/min	0.5, 1, 2, 3, 4, 5, 6, 8, 10,12, 15 L/min

FM187BS-15L-SISR

FLOWMETER
Medical Air

SPECIFICATIONS	FM187BS-15L-SISR	FM187BS-70L-SISR
Gas service	Medical Air	Medical Air
Full scale	15 L/min	70 L/min
Max. flowrate	20-50 Lpm	70-100 Lpm
Calibration pressure	400 kPa	400 kPa
Inlet connection	Sleeve Index System (SIS) as per AS 2902	
Outlet connection	G1/4"	G1/4"
Hose barb	Supplied	
User manual	Supplied	
Warranty	5 Year limited warranty	

FM197BS-15L-SISR

SPECIFICATIONS	FM197BS-1L-SISR	FM197BS-3L-SISR	FM197BS-15L-SISR	FM197BS-30L-SISR	FM197BS-70L-SISR
Gas service	Medical Oxygen	Medical Oxygen	Medical Oxygen	Medical Oxygen	Medical Oxygen
Full scale	1 L/min	3 L/min	15 L/min	30 L/min	70 L/min
Max. flowrate	5 - 10 Lpm	5 - 10 Lpm	20 - 50 Lpm	70 - 100 Lpm	70 - 100 Lpm
Calibration pressure	400 kPa	400 kPa	400 kPa	400 kPa	400 kPa
Inlet connection	Sleeve Index System (SIS) as per AS 2902				
Outlet connection	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"
Hose barb	Supplied				
User manual	Supplied				
Warranty	5 Year limited warranty				

FM293-1L-X-SIS

FM293-200-X-SIS

FM293-75L-Q-SIS

SPECIFICATIONS	FM293-1L-X-SIS	FM293-200-X-SIS	FM293-3L-X-SIS	FM293-75L-X-SIS	FM293-75L-Q-SIS
Gas service	Medical Oxygen	Medical Oxygen	Medical Oxygen	Medical Oxygen	Medical Air
Full scale	1 Lpm	200 cc/min	3 Lpm	75 Lpm	75 Lpm
Calibration pressure	400 kPa	400 kPa	400 kPa	400 kPa	400 kPa
Inlet connection	Sleeve Index System (SIS) as per AS 2902				
Outlet connection	G1/4"	G1/4"	G1/4"	G1/4"	G1/4"
Hose barb	Supplied				
User manual	Supplied				
Warranty	5 Year limited warranty				

OXYGEN SUPPLY MANIFOLD

The DST oxygen supply manifold is designed for EMS and mass casualty situations where multiple patients require oxygen simultaneously. The unit can be connected to wall outlets, or cylinders for portability and provide consistent pressure with individually selectable flow rates. The unit is available in 5, 7 or 9 flowmeter models. The supply hose provided is 3 m but can be varied to customer requirements.

The units are manufactured according to CE requirements and are compliant to EN 13220.

PART NO.
DST-7-15L

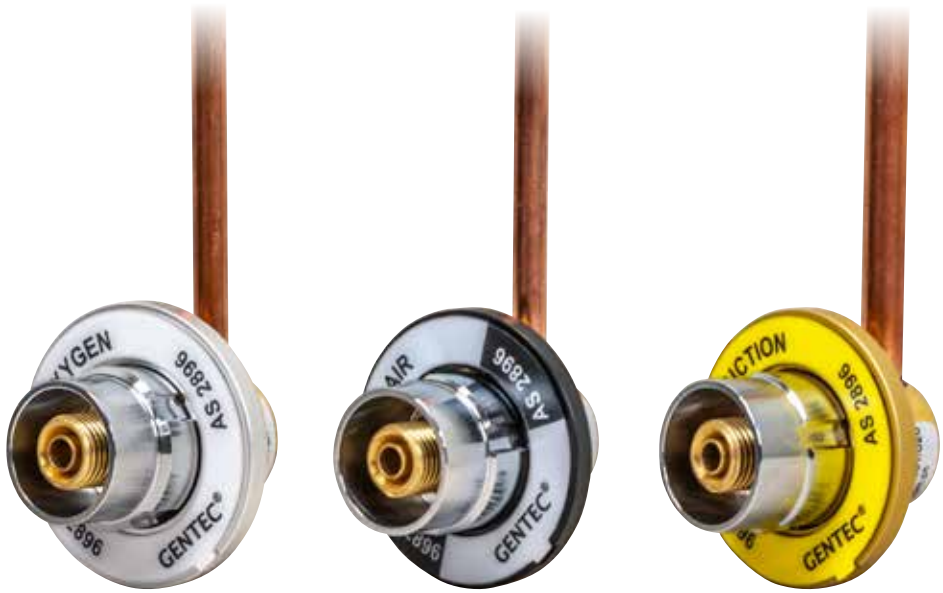
HOSE FITTINGS

SPECIFICATIONS	G204131910	G204305610	G204320911	G204312211
Description	Coupler	Handwheel	Probe	Probe
Gas service	Medical Oxygen	Medical Oxygen	Medical Oxygen	Medical Oxygen
Outlet	1/4" Hose barb	1/4" Hose barb	1/4" Hose barb	1/4" Hose barb
Standard	SIS	SIS	SIS	DISS

HUMIDIFIER

The 7200R-OA Humidifier is reusable humidifier consisting of a polycarbonate bottle providing impact resistance for maximum durability and service life with an optimum volume of 140 ml. The device is designed to be autoclavable up to 121°C during disinfecting procedures and includes a pressure relief valve on the cover to vent excess pressure. The humidifier is fitted with the standardised Australian flowmeter inlet connection for connection to a standard flowmeter outlet, and has a hose barb outlet for respiratory tubing connection.

SPECIFICATIONS	7200R-OA
Materials	Matt chrome and polyarbonate
Volume	140 ml
Inlet connection	G 1/4" F
Outlet connection	Hosebarb



MEDICAL GAS OUTLETS

Tesuco's medical gas outlets have been designed by Gentec specifically for the Australian Market. These outlets have been designed based on the requirements of AS 2896, feedback from users and existing products in the market."

FEATURES

- Medical gas self-sealing outlets.
- Indexed ring system allowing connection of SIS connectors complies with Australian Standard AS 2896.
- Gas specific terminal units with non-interchangeable threaded connections compliant with AS 2902.
- High flow capacity.
- Robust design to withstand arduous use.
- Unique gas specific diameter indexing system prevents. Incorrect assembly of units on installation or when dismantled for maintenance.
- Laser engraved gas identification on the unit body, to provide gas identification when the unit is disassembled.
- Annealed copper tails, to assist in installation.
- Instruction manual provided with unit.
- Servicing is required as part of AS 2896 Full replacement parts are available.
- 12 Month warranty against manufacturers defect.

SPECIFICATIONS	GOMGOX	GOMGAI	GOMGSU
Gas supply	Oxygen	Medical Air	Suction
Standard	AS 2896	AS 2896	AS 2896
Outlet connection	Oxygen SIS	Air SIS	Suction SIS
Inlet tubing	Annealed copper tail	Annealed copper tail	Annealed copper tail

882VR SERIES SUCTION REGULATOR

The 882VR suction regulator is a continuous suction regulator suited for surgical applications. The casing is made of ABS for long durability, impact resistant internal parts, corrosion free and lightweight. The device contains few internal parts for ease of maintenance. The device includes a clearly labelled gauge, a mode selector switch, a control knob for adjusting the suction level and a suction trap to prevent contamination caused by overflow. The device is easy to clean down or wipe with sterilant. The device complies with AS 2120.3 and is listed on the Australian Register of Therapeutic Goods (ARTG).

SPECIFICATIONS	882VR-760E-SIS-T
Regulated suction range	0-760 mm Hg
Gauge display range	0-760 mm Hg
Gauge accuracy	+/- 4%
Scale orientation	Counter clockwise
Mode selection	Off/Continuous/Full
Flowrate	>70 L/min
Suction trap	Included

POWER-VAC SERIES

Power-Vac Series is a venturi actuated suction device which features two power take-off connectors for connecting oxygen sources. It can be used in hospital treatments, other device gas supply, life support, and any circumstances where patients require the assistant of oxygen or suction therapy. This device can be used repeatedly. The device can be connected to a central oxygen pipeline outlet or cylinder regulator with a pre-set outlet pressure.

SAFETY FEATURES

- Positive pressure relief valve
- Safety trap with hose barb connection

SPECIFICATIONS	880VC-760-SIS-T
Gas supply	Oxygen
Inlet pressure (p_1)	400 kPa
Inlet connection	SIS Handwheel
Outlet connection Oxygen Suction	 SIS Sleeve Hosebarb
Negative pressure at max setting	550 mmHg
Generated vacuum flowrate	›25 L/min
Gas consumption	22 L/min @300 mmHg

KEY WRENCH

For medical cylinder

PART NO.
G123029007

BODOK SEALS

Gentec bodok seals are a specialised washer that allow for a gas tight seal between the regulators yoke and a gas cylinder.

SPECIFICATIONS	G204662010
Colour	Blue

HOSE BARBS

Tesuco® hose barbs are designed to compliment their flowmeter counterparts. White hose barbs are suitable for oxygen flowmeters, while our black hose barbs are for air flowmeters.

SPECIFICATIONS	G204302400	G204302404
Gas service	Medical Oxygen	Medical Air
Colour	White	Black

SIS CONNECTION SPARE PARTS

SPECIFICATIONS	G204031913	G204031911	G204031931	G204320910
Gas service	Medical Oxygen	Medical Oxygen	Medical Air	Medical Oxygen
Model	286	197	197	
Outlet connection	Oxygen SIS 1/8" NPT	Oxygen SIS 1/4" NPT	Air SIS 1/4" NPT	Oxygen SIS 1/8" NPT
Standard	AS 2896 AS2902	AS 2896 AS2902	AS 2896 AS2902	

ADAPTOR 3-WAY

SPECIFICATIONS	G3WYOXY
Gas service	Medical Oxygen

YOKE FITTING

SPECIFICATIONS	SPRYC870A	SPRYC950A	SPRYC940A
Gas service	Medical Oxygen	Medical Air	Medical Carbon Dioxide

ATLAS ALARM

ATLAS area alarm actively displays your medical gas information on a highly visible 10" TFT LCD screen. It is capable of handling up to 8 gases, 14 relay inputs, 7 relay outputs and 2 analog outputs in one alarm covering all needs of hospital alarm and monitoring needs.

FEATURES

- On-site customisation without the use of a laptop, tablet, or mobile device. Settings such as brightness, pressure, hysteresis, silence time, communication parameters, and high and low alarm conditions can be adjusted.
- 10" Touch screen display with password protected interface.
- Can be used as an area alarm, master or combination alarm.
- Full networking capabilities out of the box including Modbus RTU/TCP, UDP protocols.
- Can be integrated with SCADA system or BMS systems.
- Transducers can be mounted locally or remotely utilizing shielded twisted pair wiring up to 30.5 m.
- Gas specific DISS fitting to ensure that the transducer is connected to its corresponding gas.
- Circuitry protection and detection, if the transducer is not connected at all or not to the appropriate gas display, an error message ("No Sensors") will be displayed.
- The alarm system allows users to have optional relay outputs according to single or multiple alarm conditions.
- Event Log to view history of

ELECTRICAL & PHYSICAL SPECIFICATIONS

Mechanical	
Front panel	ABS
Case body	Metal Alloy
Nominal physical dimensions	
Overall size	(H) 193 x (W) 280 x (D) 103 mm
Beneath the wall	(H) 181 x (W) 262 x (D) 98 mm
Environment	
Ambient temperature	0°C - 50°C
Ambient humidity	10% - 85% RH, non-condensing
Cooling	Natural air cooling
Electrical	
Power requirements	
Input	100 - 240 VAC, 50 - 60 Hz 1A
Processor	32-bit RISC microcontroller
Monitor	
LCD size	10.1" TFT, LED backlit
Resolution	1024 x 600 pixels
Colour depth	16-bit, 65536 colours
Brightness	200 cd/m2
Touch screen	4-Wire resistive (hardness 4H)
Durability	50,000 hours
Buttons	Resistive touch buttons
Buzzer	Adjustable volume
Communication	
RS - 485Modbus RTU	9600/19200 Baud rate, (8, N, 1)
UDP	Modbus RTU over UDP
Modbus TCP	10/100 M automatic selection for ethernet
Input & output	
Analog input	
Number of channels	8
Input	4 - 20 mA Double-wire transmitter input
ADC resolution	14 Bit or range of sensor within ±1%
Digital input	
Number of channels	14
Input	Dry contact or TTL
Relay Output	
Number of channels	7
Maximum load	1A at 30 VDC/0.5A at 120 VAC
Analog Output	
Number of channels	2
Maximum load	0 - 20 mA (maximum), in relation to 1 - 5 V current for 4 - 20 mA double-wire transmitter

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Certified System™ Quality ISO 9001

The information in this brochure is to be used as a guide only.
The ultimate responsibility for safe use of the equipment lies with the operator. In the interest of constant improvement in quality and design, product specifications may change at any time, without notice. E&OE

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