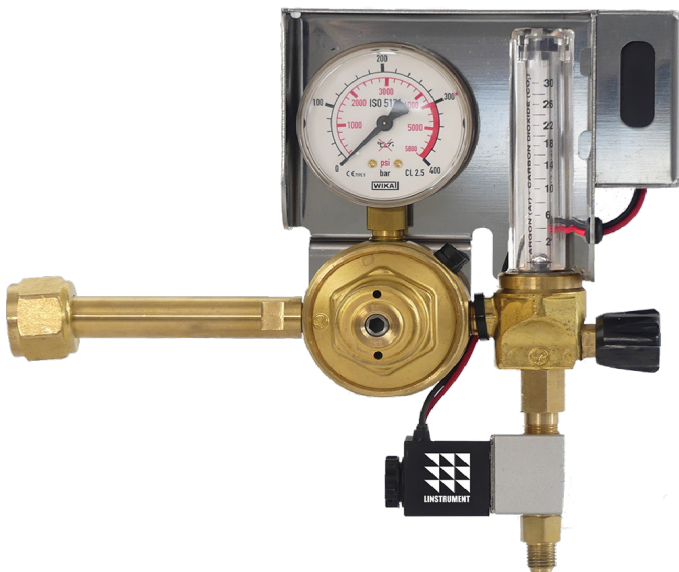




PRG-150R

Remote-controlled nitrogen
regulator with flowmeter



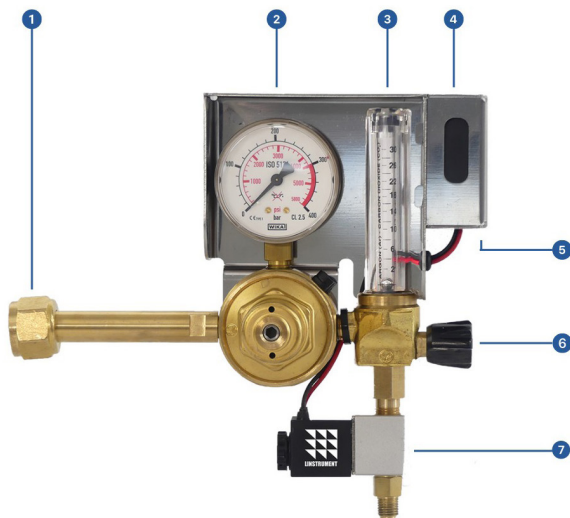
User guide

PRG-150R User guide

WARNING : Before using the regulator, carefully read these instructions and keep them for future reference. They provide all necessary information for correct use while avoiding risks to the user and damage to the equipment. DECK912 declines all direct or indirect responsibility for accidents caused by improper use of the regulator or by modifications made to it.

1. PRODUCT DESCRIPTION

1.1 OVERVIEW



1. Inlet connection	2. Pressure gauge
3. Flowmeter	4. Electronic housing
5. Power supply connector	6. Outlet valve
7. 1/4" SAE connection	



8. AC power adapter

9. Power plug



10. 9V battery compartment (6LR61)

11. Remote control ON/OFF button

12A. Antenna

12B. ON (open) - OFF (close) solenoid valve button

1.2 SPECIFICATIONS

Inlet pressure : 300 bars

Outlet pressure : 3,5 bars

Outlet flow rate : 0-30 l/min

Power supply : 220VAC

The outlet pressure is factory preset. Do not attempt to modify it.

2. OPERATION AND FIELD OF APPLICATION

The function of the pressure regulator is to stabilize the gas pressure by reducing it from the cylinder pressure to the pressure required for use.

The regulator includes a flowmeter allowing adjustment of the outlet flow from 0 to 30 liters per minute.

It is equipped with a remote-controlled solenoid valve enabling remote opening and closing of the outlet.

The PRG-150R regulator has been specifically designed for nitrogen supply to installations during brazing operations.

3. INSTALLATION

Connecting the regulator

1. Check that the regulator shows no signs of impact damage and that the pressure gauge, flowmeter, and outlet valve are not damaged..
2. Verify proper operation before use.
3. Check that the regulator indicates the correct gas type and cylinder pressure.
4. Turn the adjustment screw (6) clockwise to ensure the outlet is closed.
5. Replace the cylinder connection gasket if damaged or missing using suitable tools.
6. Before screwing in the pressure regulator, quickly open and close the cylinder valve to remove any impurities, optionally using compressed air. Be careful to point the cylinder valve outlet toward the wall and perform this operation away from heat sources. During this operation, it may be dangerous to stand or place your hand in front of the cylinder valve.
7. Mount the regulator with the gauge facing the operator.
8. Tighten the inlet connection (1) securely using the proper tool (no pliers).

Note: In case of accidental cylinder drop, check proper operation of both the regulator and cylinder. Contact your distributor if necessary.

Connecting hoses to the installation

9. Connect the hose to the outlet fitting (7). Use compliant hoses only.

Electrical connection

10. Connect the power module to connector (5) on the electronic housing.

11. Plug the power module into a 220 VAC power source.

Required checks before commissioning

After installation:

- Check for gas leaks from the regulator or hose connections using leak detection solution.
- Perform leak tests in ventilated areas. Never use a flame — use soapy water or an appropriate leak detector.
- Spray the area to be tested.
- Leaks are indicated by bubbles or foam formation.
- Clean any residues before use.
- If leaks are detected, depressurize the system and verify that all seals are appropriate and correctly installed.
- All seals are factory-checked, but verification after installation is recommended. Perfect sealing is essential before operation.

4. OPERATION

1. Ensure installation complies with this manual.
2. Connect plug (9) of the power adapter (8) into connector (5).
3. Plug the adapter (8) into a 220 VAC outlet.
4. Insert a 9V battery (6LR61) into the remote compartment (10), respecting polarity.
5. Extend the remote antenna (12A).
6. Switch on the remote using button (11).
7. Open the valve by pressing “ON (open)”.
8. Adjust flow using outlet valve (6).

9. Close the valve by pressing the OFF (Close) button. The operator can then move around the site and open or close the valve using the ON and OFF buttons.

After use :

1. Close the valve using the OFF button on the remote control.
2. Close the gas cylinder.
3. Disconnect the supply hose from the installation.
4. Drain the regulator by pressing the ON (Open) button.
5. When draining is complete, press the OFF (Close) button.
6. Turn off the remote control with button (11) to preserve the 9V battery life.
7. Close the outlet valve (6).
8. Disconnect the regulator from the gas cylinder.
9. Store the regulator and accessories in its case.

Important notes :

- Without power, the valve remains closed.
- The system allows remote control up to 200 meters in open field. Operator surroundings (walls, partitions, etc.) may obstruct signal transmission. In such cases, move the installation to improve remote control signal reception.

5. MAINTENANCE

- The regulator must be kept as a precision instrument.
- If not used for long periods, store it in protective packaging (preferably the original box) to protect against accidental impacts and contact with dust, oil, or other impurities.
- Clean the regulator with a soft cloth. Do not use chemical or abrasive cleaners.

6. AFTER-SALES SERVICE

The PRG-150R regulator is not intended to be repaired by unqualified personnel. In case of malfunction, do not attempt to repair it and return it to the supplier for service.

7. PRECAUTIONS

- The regulator is only designed for use with nitrogen.
- It must not be used with any other type of gas or with an input pressure exceeding 300 bars.
- Its use is reserved for qualified professional personnel.
- The pressure regulator must be used as a precision instrument and protected from accidental impacts, dust, oil, or other impurities.
- Do not use the regulator if it is not functioning properly.
- Do not modify the factory-set pressure adjustment.
- Gas withdrawal must only be from vertical cylinders protected against falling.
- Do not expose the pressure regulator to direct sunlight or weather conditions.
- Protect electrical connections from water or liquids.
- Smoking near pressurized containers is prohibited.
- Keep out of reach of children.
- For safety, a pressure relief valve is installed in the regulator.
- In case of malfunction, this valve releases excess gas pressure outside. Do not alter the calibration of the relief valve

8. WARRANTY

The regulator is guaranteed in our workshops against any manufacturing or operational defects for two years from the date of purchase invoice.

Explicitly excluded from the warranty :

- Any disassembly or modification of the product.
- Breakage of the pressure gauge or flowmeter due to a fall.
- Presence of water in the AC adapter or electronic housing.

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