

## GV30 Multifunctional Gas Control for Gas Appliances

(suitable for all gases according to DIN EN 437)

CE 0085

Caution! Please read these instructions entirely before use.  
 The product must be installed and operated according to all applicable regulations!

### INSTRUCTIONS FOR INSTALLATION & OPERATION



#### TECHNICAL SPECIFICATIONS

Multifunctional Gas Control according to DIN EN 126  
 Torsion and bending stress: group 2 (optional side valve: group 1)  
 Mounting Positions: The control may be mounted in an upright position (vertical with knobs on top) or at any angle 0° to 90° from the vertical position.  
 Capacity: 1,2 m³/h air at ΔP = 2,5 mbar (GV 31=1,4 m³/h)  
 Pressure regulator: Class C according to DIN EN 126  
 Max. operating inlet pressure: 50 mbar  
 Ambient temperature range (GV30 control): 0...80°C  
 optional to max.: 110 °C

Max. Sensor Temperature	for Temperature Range
50°C	13...35°C
110°C	30...80°C & 40...73°C
380°C	100...340°C

**The sensor should not come in contact with the flame!**

#### WARNING

It is the appliance manufacturer's responsibility to determine the control's suitability for a specific application.  
 Installation and adjustments are to be made only by qualified service personnel. Turn off gas supply before starting installation. The GV 30 is shipped in a plastic bag to protect it from contaminants. It should only be removed immediately prior to installation.  
 Carefully follow the appliance manufacturer's service and maintenance instructions. If none are provided, carefully follow the procedure outlined below:

#### INSTALLATION INSTRUCTIONS

##### Main and Pilot Gas Connection

Pressure may be applied only to areas 1 to 4 (see diagram 1). The maximum allowed torque for main gas connections is 35 Nm.  
Compression Fittings: Square off tube ends and remove burrs. Slip gland and ferrule over tubing and insert into connection until it bottoms. Slide ferrule and gland into place and turn finger tight. Do not use joint compound. Tighten gland with a wrench about one turn beyond finger tight. Do not bend tubing after compression fitting has been tightened as this may cause gas leaks.  
Threaded Pipe Connections: The GV30's main gas inlet and outlet are threaded to Rp 3/8 ISO 07 and may be connected directly to threaded gas pipe.

**CAUTION:** Do not rotate the side valve as this may cause leaks!

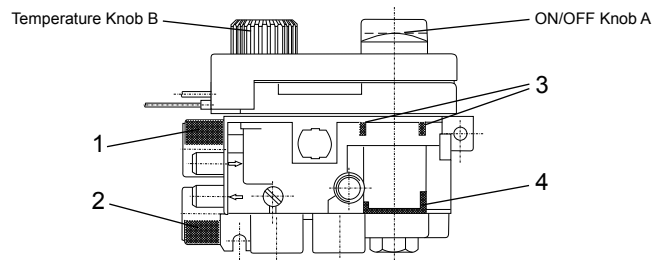


Diagram 1 - GV30 Stress Points

#### Thermocouple Connection

The GV 30 has an electrical thermocouple connection, which must be kept clean and dry. Do not expose the thermocouple to joint compound. To assure a good electrical connection, tighten only ¼ turn beyond finger tight. Avoid severe bending of the thermocouple tubing during installation (min. 25 mm radius) as this may cause it to kink.

#### Ignition Cable Connection

When placing the ignition cable, care should be taken not to stretch it too tightly. If possible, avoid contact with the heater's metal parts, especially those with sharp edges. Length of spark gap: 3 to 4 mm.

#### Remote Connection

The remote control is activated by ultra sound. The receiver box should be mounted so that the receiver aperture is not obstructed by the appliance's sheet metal. The receiver should point in the probable direction of the transmitter.

Ambient temperature (receiver): max. 60°C

Ambient temperature (cable): max. 180°C

Differentiated tab connectors prevent incorrect wiring of the receiver to the valve motor.

#### Installation of a Thermocurrent Interrupter

If a temperature limiting switch is used, a thermocurrent interrupter must be installed between thermocouple and GV 30. It has to be installed in the same manner as the thermocouple.

#### Installation of the Temperature Sensor (bulb)

The temperature sensing element should be placed in a location representative of room temperature. When placing the capillary tube avoid severe bending (min. 25 mm radius) as this may cause it to kink.

#### Leakage Test after Installation

Check for gas leaks with the main burner in the ON position. Paint all pipe connections with a strong soap and water solution (or other accepted leak tester) and check for bubbles. If a leak is found in any connection, reconnect the joint and repeat the leakage test. Never use a gas appliance if leakage is detected.

#### ADJUSTMENT

Pilot gas and pressure regulator or throttle adjustment screws are located under the cover. To remove the cover, first loosen the screw next to the "Temperature Knob B". Put a small screw driver into the slot next to the "ON/OFF Knob A", push outwards and lift the cover (see diagrams 2 and 3).

#### Pilot Flame Adjustment

The pilot flame is pre-set to maximum at the factory. To decrease the pilot flame, turn the screw clockwise.

