


**FIO**Net™


# GCV-RP

**GCV-RP** is device designed to **control any pressure regulator's pilot** by acting on the adjusting nut. Suitable for installation in hazardous area, it is controlled natively by Pietro Fiorentini's Starbox or by any third-party RTU/PLCs. GCV-RP is composed by a stepper motor and a controller unit, encompassing functional and safety features.



District stations



Features	Values
Ambient temperature	-20°C to +55°C
ATEX certification	CE  II 2G Ex db h IIB T5 Gb
Mechanical connection	Plug into the pilot adjusting nut
Motor driver	Spur gear-motor with encoder (resolution 2.5°)
Driving torque	0.5 Nm
Power supply (controller)	12 Vdc - Max 100mA
Communication port (controller)	<ul style="list-style-type: none"> <li>N°1 RS485</li> <li>N°1 IR (optical communication port)</li> </ul>
Display (controller)	2 x 20 Alphanumeric, 5 Keys
Memory (controller)	2MB flash

**Table 1** Features

## Materials and Approvals

Part	Material
Main body	Low-copper-content aluminium alloy RAL7035 epoxy coating
Flexible shaft	<ul style="list-style-type: none"> <li>• <b>Sheath:</b> zinc-coated carbon steel DX51 Fe P02 Z200 UNI 10142</li> <li>• <b>Spiral Coil:</b> high tensile steel</li> </ul>

**NOTE:** The materials indicated above refer to the standard models. Different materials can be provided according to specific needs.

**Table 2** Materials

The device meets the requirements of the following directives:

- 2014/34/EU Equipment for potentially explosive atmospheres (ATEX)
- 2014/30/EU Electromagnetic Compatibility (EMC)

In case of communication failure, the GCV controller restores the position of the adjusting nut to the default value.



ATEX



EMC

## GCV-RP competitive advantages



Compact and simple design



Multi brand compatibility\*

\*To be verified on a case-by-case basis



Remote set-point variation



Easy maintenance



High accuracy



Failover to max or min  
mechanical set-point