

# PRESSURE RELATIVE TRANSMITTER

## TP-520

### INSTRUCTION MANUAL



Man 5001660 V1.0x B

#### WARRANTY

Warranty conditions are available on our web site [www.novusautomation.com/warranty](http://www.novusautomation.com/warranty).

#### PRESENTATION

The pressure transmitter type 520 have been developed for applications in the industrial refrigeration technology. This means that the 520 can be used for all gases and media in refrigeration, including ammonia.

#### PRECAUTION

Before working with the transmitter, read carefully its specifications and operating instructions. In case of damaging the device (or anything else as a consequence) because of incorrect or mistaken using, warranty becomes inactive.

Installation must be done only by specialized professionals.

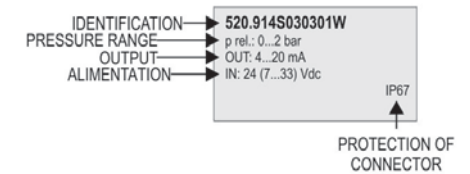
#### SPECIFICATIONS

Range of measurement: ..... See recording in the body of the transmitter  
 Signal Output: ..... 4-20 mA  
 Power Supply (V): ..... 7 to 33 Vdc  
 Load ( $\Omega$ ): .....  $RL_{max} = (V - 7V) / 20 \text{ mA}$   
 Accuracy: .....  $< 0.3\%$  the fund's scale (FE) (25 °C / 24 Vdc)  
 Over Load: .....  $\leq 6 \text{ bar}$ : 5 x FE  
 .....  $> 6 \text{ bar}$ : 3 x FE (max. 1500 bar)  
 Rupture Pressure: .....  $\leq 10 \text{ bar}$ : 5 x FE  
 .....  $> 6 \text{ bar}$ : 6 x FE (max. 2500 bar)  
 Materials in Contact With the Medium: .....  
 ..... Connection: Stainless steel 1.4404 / Al316L  
 ..... Sensor: Stainless steel 1.4404 / Al316L  
 Outside Thread: ..... External screw 1/4 - 18 NPT (basic model)  
 Pressure Connection: ..... Stainless steel 1.4404 / AISI 316L  
 Plug accommodation: ..... Polyamide 50 % GF VO  
 Ambient Temperature: ..... -30 to 85 °C  
 Process Fluid Temperature: ..... -40 to 135 °C  
 Response Time: .....  $< 2 \text{ ms}$   
 Electromagnetic compatibility: ..... CE conformity acc. EN 61326-2-3  
 Protection of Connector: ..... Connection QUICKON: IP67  
 ..... Connection DIN...: IP65  
 Weight: ..... 90 g  
 Wetted parts: ..... Sensor and Process Connection  
 Compatibility: all gases and liquids used in cooling, including ammonia, compatible with AISI 316L stainless steel.

Product sold by Novus Automation Inc.

#### IDENTIFICATION

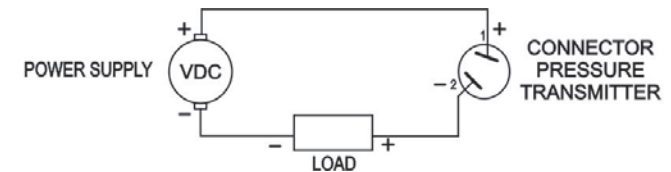
Figure below shows the disposition of the information on the identification tag of the transmitter.



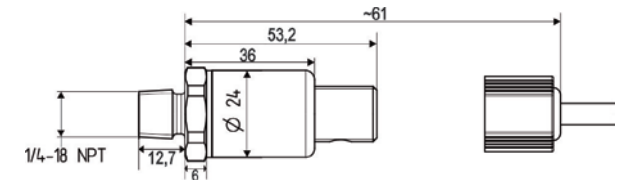
#### Installation Recommendations

- Conductors of small electrical signals must be distant from activation or high-tension/current conductors, preferably passing through grounded conduits.
- A specific electrical power supply network should be provided for instruments use only
- In controlling and monitoring applications, possible consequences of any system failure must be considered in advance.
- RC filters (47 R and 100 nF, serial) in inductor charges (contactors, solenoids, etc.) are mandatory.

#### ELECTRICAL CONNECTION



#### CONNECTION OPTION 1 - QUICKON



#### CONNECTION OPTION 2 - DIN EN 175301-803-A

