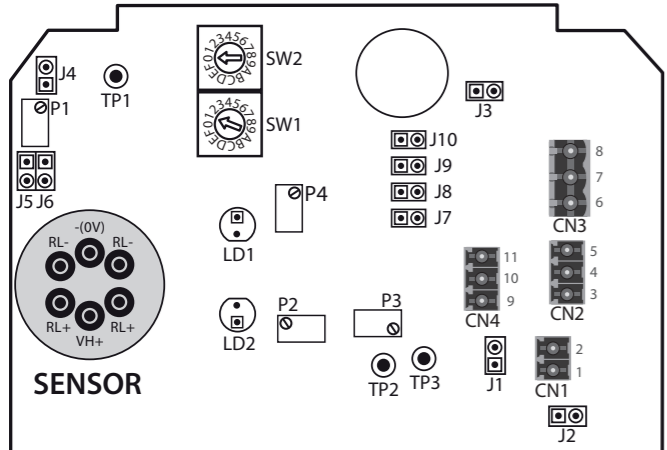
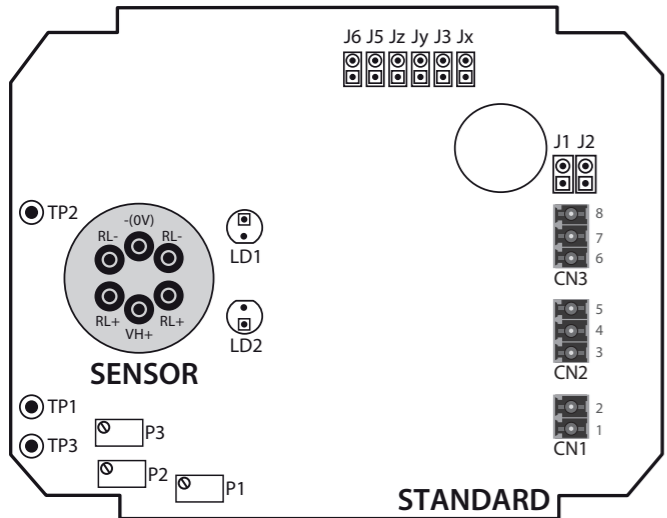


**SEMICONDUCTOR VERSION**  
**VERSIONE SEMICONDUZIONE / VERSIÓN SEMICONDUCTOR**  
**HALBLEITER-VERSION / VERSION SEMICONDUCTEUR**

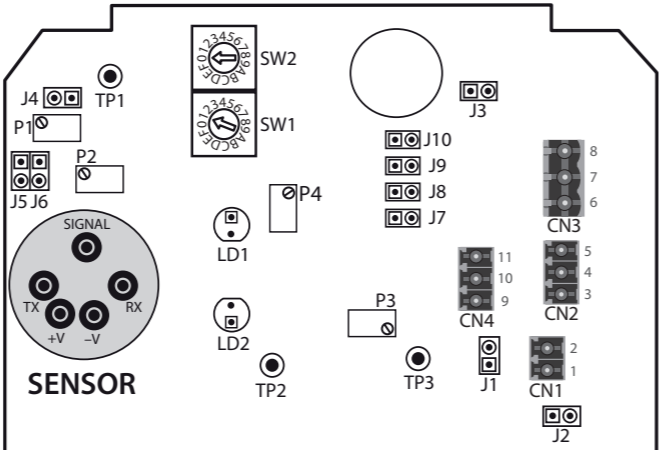


**MODBUS**

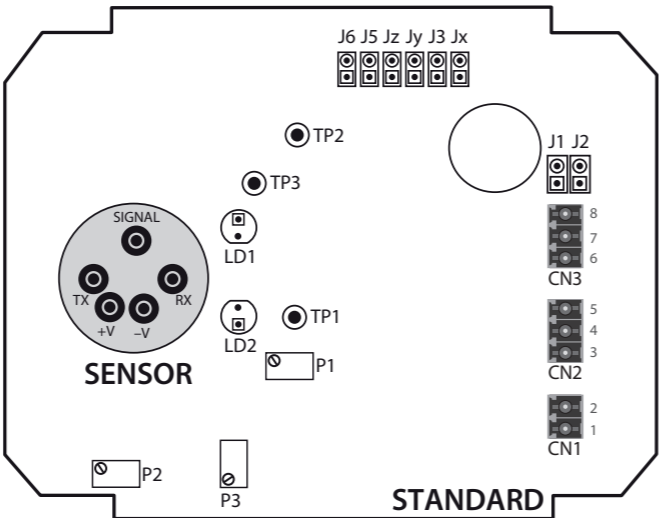


**STANDARD**

**INFRARED VERSION**  
**VERSIONE INFRAROSSO / VERSIÓN INFRA-ROJOS**  
**INFRAROT-VERSION / VERSION INFRARED**



**MODBUS**



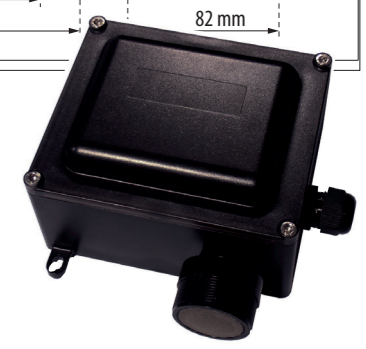
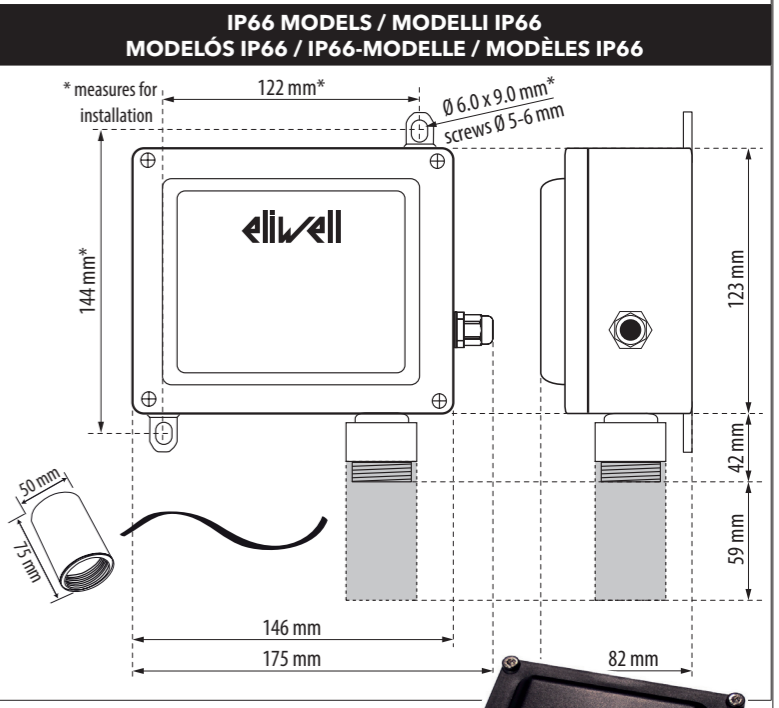
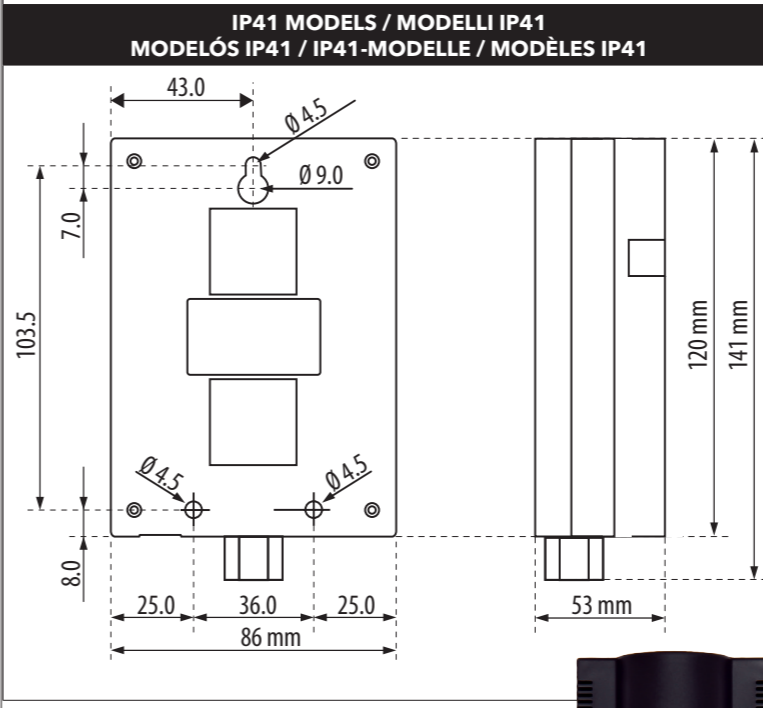
**STANDARD**

**ELECTRICAL CONNECTIONS AND CONFIGURATION**

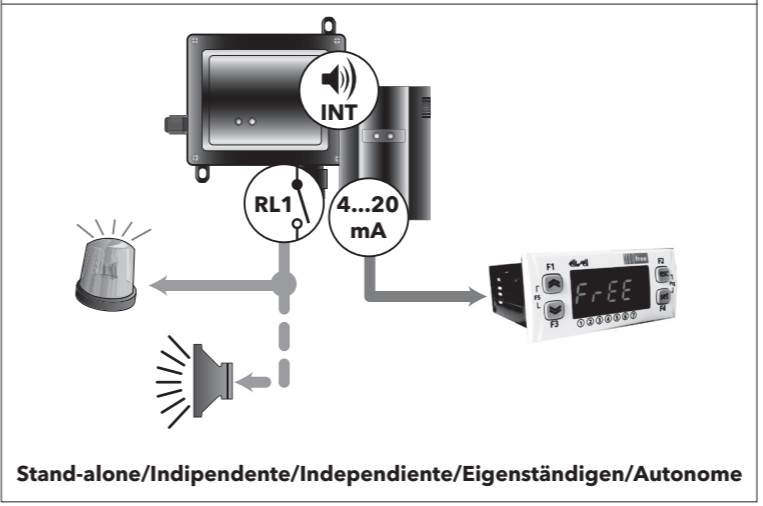
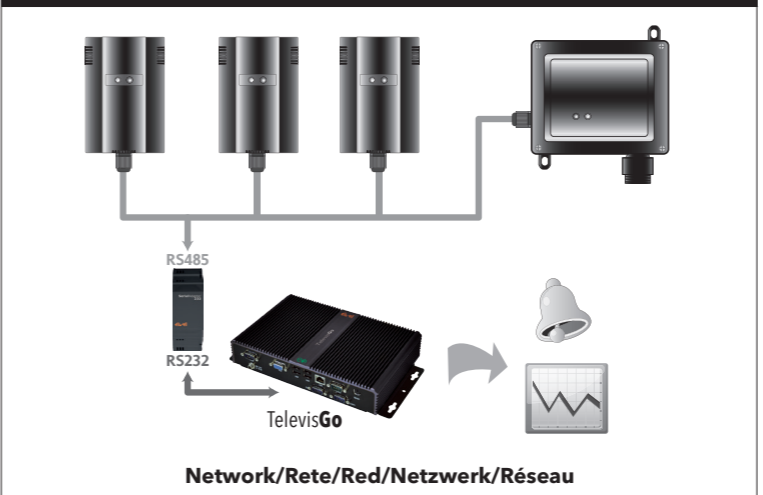
**COLLEGAMENTI ELETTRICI e CONFIGURAZIONE / CONEXIONES ELÉCTRICAS y CONFIGURACIÓN**  
**ELEKTRISCHE ANSCHLÜSSE und KONFIGURATION / RACCORDEMENTS ÉLECTRIQUES et CONFIGURATION**

<b>CN1</b>	<b>Power Supply</b> J1 = ON, J2 = OFF ➔ AC: 1 = ~, 2 = ~ (12...24 V~) J1 = OFF, J2 = ON ➔ DC: 1 = 0V, 2 = V+ (12...24 V~)	<b>J1, J2</b>	<b>Power Supply Jumper:</b> J1 = ON & J2 = OFF : Unit is set for AC power supply J1 = OFF & J2 = ON : Unit is set for DC power supply	<input type="checkbox"/> ON • <input type="checkbox"/> OFF
<b>CN2</b>	<b>Output Signals</b> 3 = 0V (0 Volts, ground) 4 = V (setting for Modbus version and Standard version are different, see below: Modbus: J7 = ON, J8, J9, J10 = OFF ➔ Voltage output = 0 ... 5V J8 = ON, J7, J9, J10 = OFF ➔ Voltage output = 0 ... 10V J9 = ON, J7, J8, J10 = OFF ➔ Voltage output = 1 ... 5V J10 = ON, J7, J8, J9 = OFF ➔ Voltage output = 2 ... 10V Standard: Jx = OFF, Jy = OFF ➔ Voltage output = 0 ... 10V Jx = ON, Jy = OFF ➔ Voltage output = 0 ... 5V Jx = OFF, Jy = ON ➔ Voltage output = 2 ... 10V Jx = ON, Jy = ON ➔ Voltage output = 1 ... 5V 5 = I (Current Output = 4 ... 20 mA) <b>NOTE:</b> for Standard version, Current Output needs to be enabled using Jy (Jy = ON)	<b>J3</b>	<b>Sounder Jumper:</b> ON = Sounder enabled (Audible alarm if setpoint reached) OFF = Sounder disabled (No audible alarms)	<input type="checkbox"/> ON • <input type="checkbox"/> OFF
<b>CN3</b>	<b>Relay</b> 6 = NO (Normally Open) 7 = COM (Common) 8 = NC (Normally Closed)	<b>J4</b>	<b>Reset Jumper:</b> ON = Stop Unit operation OFF = Normal functioning	<input type="checkbox"/> ON • <input type="checkbox"/> OFF
<b>CN4</b>	<b>Modbus (ONLY MODBUS model)</b> 9 = GND (Ground - Isolated from 0V) 10 = Tx/Rx+ (Non inverting Modbus Signal) 11 = Tx/Rx- (Inverting Modbus Signal)	<b>J5, J6</b>	<b>Sounder &amp; Relay delay Jumper:</b> J5 = OFF & J6 = OFF : 0 minutes (no delay) J5 = ON & J6 = OFF : 1 minute J5 = OFF & J6 = ON : 5 minutes J5 = ON & J6 = ON : 10 minutes	<input type="checkbox"/> ON • <input type="checkbox"/> OFF
<b>P1</b>	<b>Alarm Potentiometer P1 (Alarm):</b> Adjust alarm setpoint for the sounder and relay.	<b>J7, J8, J9, J10</b>	<b>(ONLY MODBUS version)</b> <b>Jumper J7</b> (Voltage output range selection: 0 ... 5V): J7 = ON, J8, J9, J10 = OFF ➔ Voltage output = 0 ... 5V <b>Jumper J8</b> (Voltage output range selection: 0 ... 10V): J8 = ON, J7, J9, J10 = OFF ➔ Voltage output = 0 ... 10V <b>Jumper J9</b> (Voltage output range selection: 1 ... 5V): J9 = ON, J7, J8, J10 = OFF ➔ Voltage output = 1 ... 5V <b>Jumper J10</b> (Voltage output range selection: 2 ... 10V): J10 = ON, J7, J8, J9 = OFF ➔ Voltage output = 2 ... 10V	<input type="checkbox"/> ON • <input type="checkbox"/> OFF
<b>P2</b>	<b>Zero Potentiometer P2 (ZERO):</b> Adjust the zero level voltage for the output signal.	<b>Jx, Jy</b>	<b>(ONLY STANDARD version)</b> <b>Jumper Jx &amp; Jy (Voltage output range selection):</b> Jx = OFF, Jy = OFF ➔ Voltage output = 0 ... 10V Jx = ON, Jy = OFF ➔ Voltage output = 0 ... 5V Jx = OFF, Jy = ON ➔ Voltage output = 2 ... 10V Jx = ON, Jy = ON ➔ Voltage output = 1 ... 5V	<input type="checkbox"/> ON • <input type="checkbox"/> OFF
<b>P3</b>	<b>Span Potentiometer P3 (SPAN):</b> Adjust output signal span.	<b>Jz</b>	<b>(ONLY STANDARD version)</b> <b>NOT USED</b>	<input type="checkbox"/> ON • <input type="checkbox"/> OFF
<b>P4</b>	<b>4...20mA Potentiometer P4 (4-20mA):</b> Adjust the 4 to 20 mA current output.	<b>TP1</b>	<b>Setpoint Voltage Test Point TP1 (Alarm (modbus version) or VREF (standard version)):</b> Sounder and relay setpoint Voltage.	
<b>SW1 &amp; SW2</b>	<b>Address (ONLY MODBUS model)</b> The valid address has a range of 0 ... 247 and the value is ADR = [SW1 + (SW2x16)]. Example: • SW1=1, SW2=0 ➔ ADR=1 (Valid address) • SW1=1, SW2=1 ➔ ADR=17 (Valid address) • SW1=7, SW2=F ➔ ADR=1 (Valid address) • SW1=8, SW2=F ➔ ADR=1 (Reserved) • SW1=F, SW2=F ➔ ADR=1 (Reserved) <b>NOTES:</b> 1) SW1 and SW2 are hexadecimal dial switches. 2) see full Address Table on the manual (Modbus chapter).	<b>TP2</b>	<b>Vs Sensor Voltage Test Point TP2 (Vs):</b> Vs sensor voltage	
		<b>TP3</b>	<b>0V Test Point TP3 (0V):</b> Board ground plane connection	

**MECHANICAL INSTALLATION and DIMENSIONS**  
**MONTAGGIO MECCANICO e DIMENSIONI / MONTAJE MECANICO y DIMENSIONES**  
**MECHANISCHER EINBAU und ABMESSUNGEN / MONTAGE MECANIQUE et DIMENSIONS**



**CONNECTION EXAMPLES**  
**ESEMPI DI CONNESSIONE / EJEMPLOS DE CONEXIÓN**  
**EXEMPLES DE RACCORDEMENT / ANSCHLUSSBEISPIELE**



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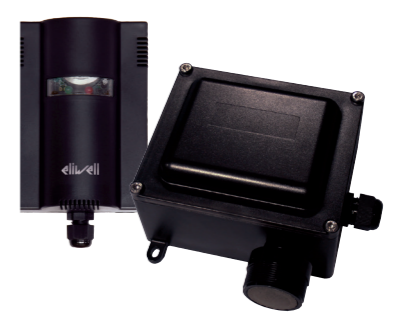
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