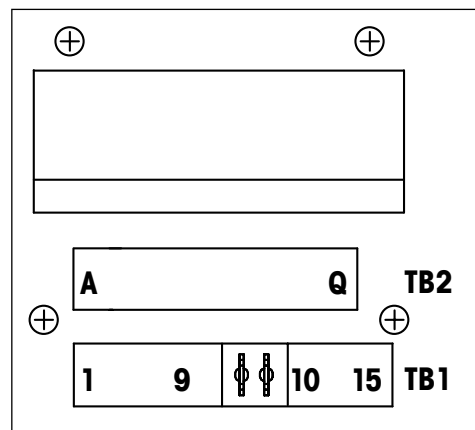


4.3 Terminal block (TB) definitions



Power connections are labeled **A01+ /HART** and **A01- /HART** resp. **A02+** and **A02-** for 14 to 30 VDC.

4.4 Terminal block TB1

Terminal	Designation	Description
1	DI1+	Digital input 1
2	DI1-	
3	DI2+	Digital input 2
4	DI2-	
5	Not used	–
6	OC1+	Open collector output 1 (switch)
7	OC1-	
8	OC2+	Open collector output 2 (switch)
9	OC2-	
10	A01+ /HART	– Power connection 14 to 30 V DC
11	A01- /HART	– Analog output signal 1 – HART signal
12	A02+	– Power connection 14 to 30 V DC
13	A02-	– Analog output signal 2
14	Not used	–
15	⏏	

4.5 Terminal block TB2: Analog sensors

4.5.1 Conductivity (2-e/4-e) analog sensors

Terminal	Function	Color
A	Cnd inner1 ¹⁾	White
B	Cnd outer1 ¹⁾	White/blue
C	Cnd outer1	–
D	Not used	–
E	Cnd outer2	–
F	Cnd inner2 ²⁾	Blue
G	Cnd outer2 (GND) ²⁾	Black
H	Not used	–
I	RTD ref/GND	Bare shield
J	RTD sense	Red
K	RTD	Green
L	Not used	–
M	Not used	–
N	Not used	–
O	Not used	–
P	Not used	–
Q	Not used	–

1) For third party Conductivity 2-e sensors a jumper between A and B may be required.

2) For third party Conductivity 2-e sensors a jumper between F and G may be required.

4.5.2 pH and Redox (ORP) analog sensors

Terminal	pH		Redox (ORP)	
	Function	Color ¹⁾	Function	Color
A	Glass	Transparent	Platinum	Transparent
B	Not used	–	–	–
C	Not used	–	–	–
D	Not used	–	–	–
E	Reference	Red	Reference	Red
F	Reference ²⁾	–	Reference ²⁾	–
G	Solution GND ²⁾	Blue ³⁾	Solution GND ²⁾	–
H	Not used	–	–	–
I	RTD ref/GND	White	–	–
J	RTD sense	–	–	–
K	RTD	Green	–	–
L	Not used	–	–	–
M	Shield (GND)	Green/yellow	Shield (GND)	Green/yellow
N	Not used	–	–	–
O	Not used	–	–	–
P	Not used	–	–	–
Q	Not used	–	–	–

1) Grey wire not used.

2) Install jumper between F and G for ORP sensors and pH electrodes without SG.

3) Blue wire for electrode with SG.

4.5.3 Amperometric oxygen analog sensors

Terminal	Function	InPro 6800(G)	InPro 6900	InPro 6950
		Color	Color	Color
A	Not used	–	–	–
B	Anode	Red	Red	Red
C	Anode	– ¹⁾	– ¹⁾	–
D	Reference	– ¹⁾	– ¹⁾	Blue
E	Not used	–	–	–
F	Not used	–	–	–
G	Guard	–	Grey	Grey
H	Cathode	Transparent	Transparent	Transparent
I	NTC ref (GND)	White	White	White
J	Not used	–	–	–
K	NTC	Green	Green	Green
L	Not used	–	–	–
M	Shield (GND)	Green/yellow	Green/yellow	Green/yellow
N	Not used	–	–	–
O	Not used	–	–	–
P	+Ain ²⁾	–	–	–
Q	–Ain ²⁾	–	–	–

1) Install jumper between C and D for InPro 6800(G) and InPro 6900.

2) 4 to 20 mA signal for pressure compensation

4.6 Terminal block TB2: ISM sensors

4.6.1 pH, Amperometric oxygen, Conductivity (4-e) and Dissolved carbon dioxide ISM sensors

Terminal	Function	Color
A	Not used	–
B	Not used	–
C	Not used	–
D	Not used	–
E	Not used	–
F	Not used	–
G	Not used	–
H	Not used	–
I	Not used	–
J	Not used	–
K	Not used	–
L	1-wire	Transparent (cable core)
M	GND	Red (shield)
N	RS485-B	–
O	RS485-A	–
P	+Ain ¹⁾	–
Q	–Ain ¹⁾	–

1) Only for Oxygen sensors: 4 to 20 mA signal for pressure compensation

4.6.2 Optical oxygen ISM sensors

Terminal	Optical Oxygen with VP8 Cable ¹⁾		Optical Oxygen with other Cables ²⁾	
	Function	Color	Function	Color
A	Not used	–	Not used	–
B	Not used	–	Not used	–
C	Not used	–	Not used	–
D	Not used	–	Not used	–
E	Not used	–	Not used	–
F	Not used	–	Not used	–
G	Not used	–	Not used	–
H	Not used	–	Not used	–
I	Not used	–	D_GND (shield)	Yellow
J	Not used	–	Not used	–
K	Not used	–	Not used	–
L	Not used	–	Not used	–
M	D_GND (shield)	Green/yellow	D_GND (shield)	Grey
N	RS485-B	Brown	RS485-B	Blue
O	RS485-A	Pink	RS485-A	White
P	+Ain ³⁾	–	+Ain ³⁾	–
Q	–Ain ³⁾	–	–Ain ³⁾	–

1) Connect the grey +24 DC wire and the blue GND_24 V wire of the sensor separately to an external power supply.

2) Connect the brown +24 DC wire and the black GND_24 V wire of the sensor separately.

3) 4 to 20 mA signal for pressure compensation