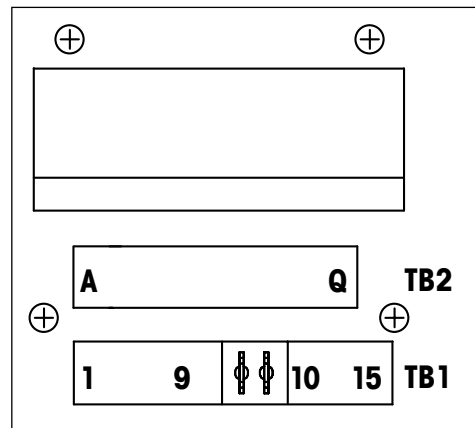



### 4.3 Terminal Block (TB) Definitions



Power connections are labeled **A01+ /HART** and **A01- /HART** and **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 4-e Analog Sensors

Terminal	Function	Color
A	Cnd inner1	White
B	Cnd outer1	White/blue
C	Cnd outer1	–
D	Not used	–
E	Cnd outer2	–
F	Cnd inner2	Blue
G	Cnd outer2 (GND)	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	–

### 4.5.2 pH and Redox (ORP) Analog Sensors

Terminal	pH		Redox (ORP)	
	Function	Color <sup>1)</sup>	Function	Color
A	Glass	Transparent	Platinum	Transparent
B	Not used	–	–	–
C	Not used	–	–	–
D	Not used	–	–	–
E	Reference	Red	Reference	Red
F	Reference <sup>2)</sup>	–	Reference <sup>2)</sup>	–
G	Solution GND <sup>2)</sup>	Blue <sup>3)</sup>	Solution GND <sup>2)</sup>	–
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) Gray 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.

## 4.6 Terminal Block TB2: ISM Sensors

### 4.6.1 pH 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	–
Q	–Ain	–