



The AI-Box' high density packaging, removable terminal block and DIN rail mounting saves time and panel space. The module snaps easily onto standard top hat (T) profile DIN rail.

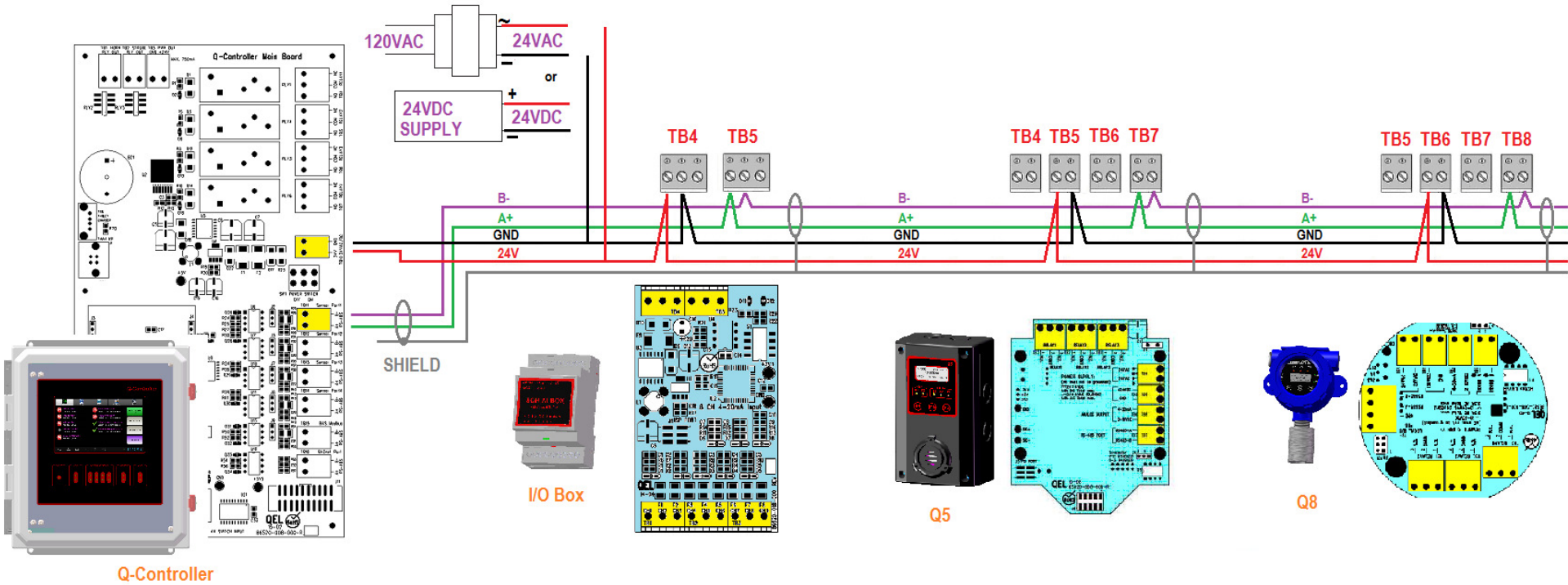
DIPSwitch
Setting
for
Address:
-- A3
-- A2
-- A1
-- A0



		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	QUATROSENSE ENVIRONMENTAL LTD.		
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	XY	15-05-06	TITLE: <h1 style="text-align: center;">AI-BOX</h1> <h2 style="text-align: center;">Installation Drawing</h2>		
			CHECKED					
			ENF APPR.					
			MFG APPR.					
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.					
		MATERIAL	COMMENTS:			SIZE	DWG. NO.	REV
		FINISH				B	86550-003-000	A
	NEXT ASSY	USED ON				SCALE: 1:2	WEIGHT:	SHEET 1 OF 3
	APPLICATION		DO NOT SCALE DRAWING					

Recommend Connection for New Installations

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	See Sheet1	-	-



Note:

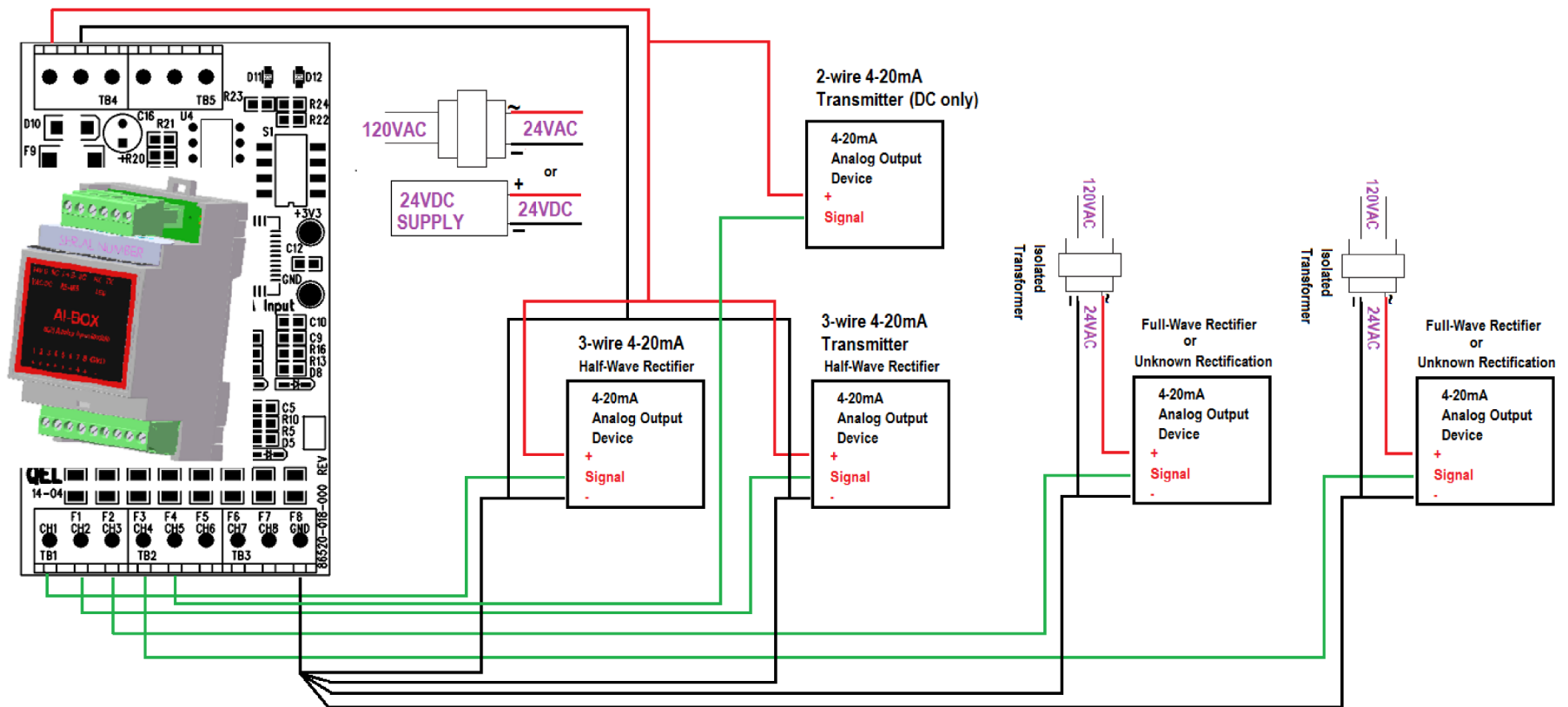
1. The power supply can be 24VAC or DC as every device uses a half-wave rectifier in the drawing
2. The power negative may be grounded or floating
3. Don't mix full wave rectifiers device with this system
4. RS-485 cable should be wired from one sensor to another without tees or stub. Power cable does not matter
5. Before power up, the polarity of the 24VAC power supply should be checked carefully, reversing polarity on the network will cause the RS-485 driver chips blow up
6. The I/O Box in the drawing can be AI-Box, AO-Box, BI-Box or BO-Box

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	QUATROSENSE ENVIRONMENTAL LTD		
		DIMENSIONS ARE IN INCHES	DRAWN			TITLE: <div>AI-Box</div> <div>Installation Drawing</div>		
		TOLERANCES:	CHECKED					
		FRACTIONAL ±	ENG APPR.					
		ANGULAR: MACH ± BEND ±	MFG APPR.					
		TWO PLACE DECIMAL ±				SIZE DWG. NO. REV <div>B 86550-003-000 A</div>		
		THREE PLACE DECIMAL ±						
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SCALE: 1:4 1 SHEET 2 OF 3		
		MATERIAL	COMMENTS:					
		FINISH						
	NEXT ASSY	USED ON						
	APPLICATION							

AI-BOX Connection

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
-	-	See Sheet 1	-	-



NOTE for AI-Box:

- The AI-Box is non-isolated devices with a half-wave rectifier on the 24VAC/DC power input terminal. Therefore, to prevent equipment damage, multiple devices that are powered by a common 24VAC transformer must use common device power connections (e.g. 24VAC input power to other device power inputs, and ground to other device grounds), or dedicated isolated transformers must be provided for each non-isolated device.
- The AI-Box 24VAC/DC input power ground and analog input signal returns are common.
- If it is known that the connected analog device is half-wave rectified, it can share the same AC power supply with the AI-Box
- If the rectification of the other device is unknown, it is recommended that a separate transformer is used to power other device.

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		UNLESS OTHERWISE SPECIFIED:	NAME		DATE		Quatrosense Environmental Ltd TITLE: <div>AI-Box Installation Drawing</div>		
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN						
			CHECKED						
			ENG APPR.						
			MFG APPR.						
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.				<div>SIZE DWG. NO. REV</div> <div>B 86550-003-000 A</div> <div>SCALE: 1:2 WEIGHT: SHEET 3 OF 3</div>		
		MATERIAL	COMMENTS:						
NEXT ASSY	USED ON	FINISH							
APPLICATION		DO NOT SCALE DRAWING							