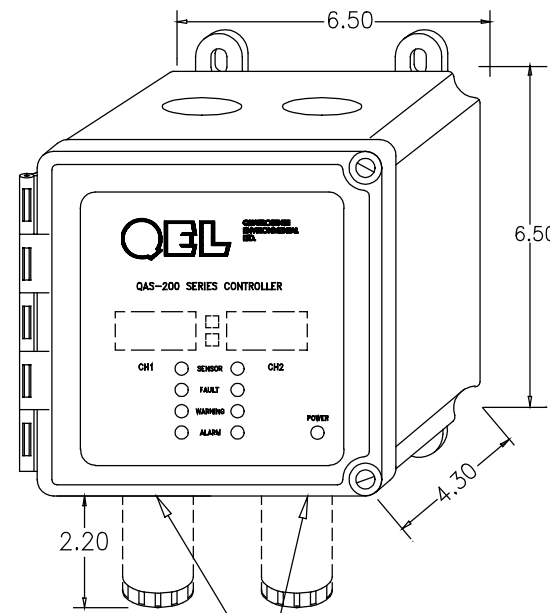
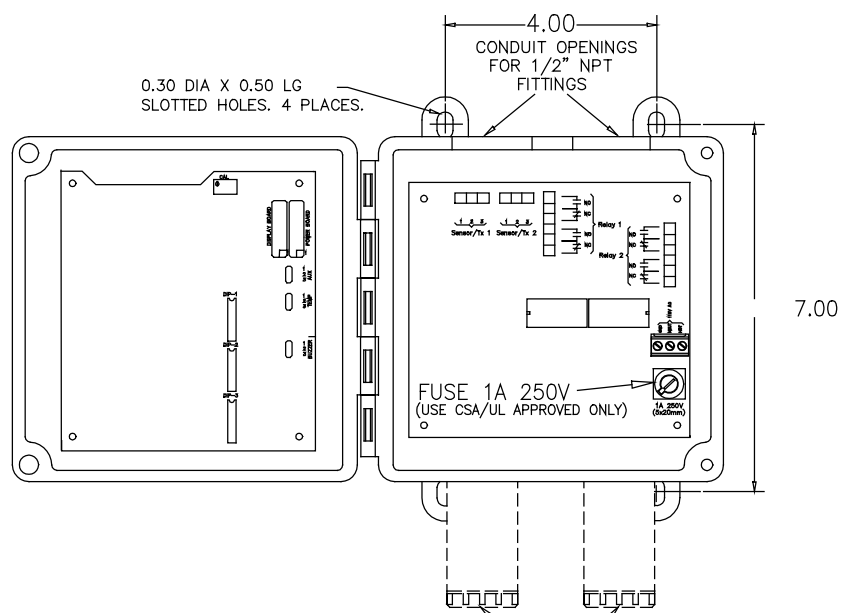


THIS DRAWING CONTAINS INFORMATION WHICH IS THE PROPRIETARY PROPERTY OF QUATROSENSE ENVIRONMENTAL LTD. THIS DRAWING IS RECEIVED IN CONFIDENCE, AND ITS CONTENTS MAY NOT BE DISCLOSED WITHOUT THE PRIOR WRITTEN CONSENT OF QUATROSENSE ENVIRONMENTAL LTD.

REV		ECO	DESCRIPTION	DATE	DRN	CHK	APVD
A	---	---	FIRST RELEASE	97-06-16	YD	AWH	RO
B	174	---	ADD ENTRY HOLE SIZE	98-03-23	YD	YD	RO
C	280	---	ADD RELAY TABLE	98-03-16	YD	GL	BC
D	675	---	MINOR UPDATES	05-01-11	DH	CG	DH



DISPLAY OPTIONS

May be purchased with 0, 1, or 2 digital displays. If 1 only is purchased then it is always Ch 1. Displays not available with solid state sensors.

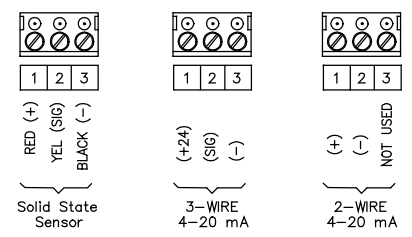
SENSOR OPTIONS

Accepts either solid state sensors directly or 4-20 milliamp linear signals.

SENSORS MAY BE REMOTE MOUNTED FROM ENCLOSURE

3/4" CONDUIT ENTRY 1.093" DIA

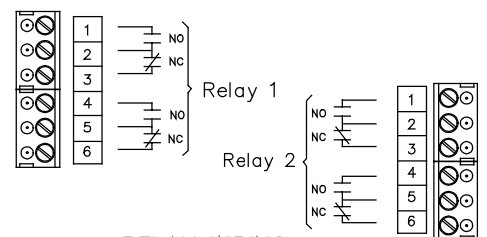
WIRING CONNECTIONS



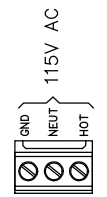
TYPICAL SENSOR WIRING

SENSOR / TRANSMITTER (Tx) 1 OR 2

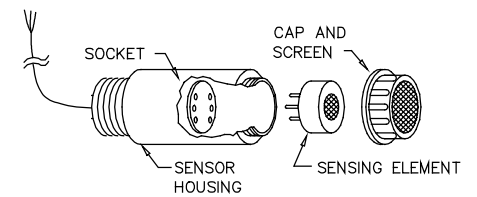
SEE TABLE 1 ON SHEET TWO FOR CONFIGURATION OF RELAYS



RELAY WIRING



POWER WIRING



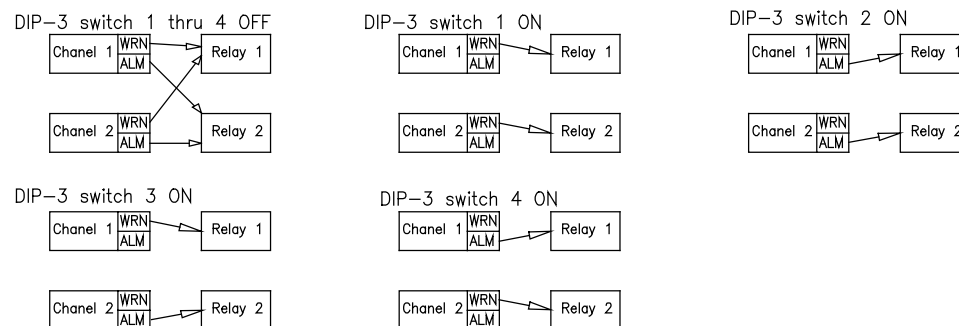
DRN	Y.DUBE	97-04-23	QUATROSENSE ENVIRONMENTAL LTD RICHMOND, ONTARIO, CANADA			
CHK	DH	05-01-11	QAS-200 DUAL-CHANNEL CONTROLLER INSTALLATION DRAWING (115 VAC)			
DSGN	DH	97-08-12	SIZE	B	TYPE	ID
APVD			SCALE	FILENAME	DWG NO	62050-002-000
C.A.					REV	D
APPLICATION			DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS AND SHOWN FOR REFERENCE ONLY			
			0 SHEET 1 OF 2			

THIS DRAWING CONTAINS INFORMATION WHICH IS THE PROPRIETARY PROPERTY OF QUATROSENSE ENVIRONMENTAL LTD. THIS DRAWING IS RECEIVED IN CONFIDENCE, AND ITS CONTENTS MAY NOT BE DISCLOSED WITHOUT THE PRIOR WRITTEN CONSENT OF QUATROSENSE ENVIRONMENTAL LTD.

REVISIONS					
REV	ECO	DESCRIPTION	DATE	DRN	CHK
ALL		SEE SHEET 1			

Table 1 (SEE INSTALLATION OPERATION AND MAINTENANCE MANUAL 62050-001-000)

DIP-3 Switches 1 to 4	Relay 1 Actuation	Relay 2 Actuation
All switches OFF	Common Warning SP	Common Alarm SP
DIP-3 switch 1 ON	Channel 1 Warning	Channel 2 Warning
DIP-3 switch 2 ON	Channel 1 Alarm	Channel 2 Alarm
DIP-3 switch 3 ON	Channel 1 Warning	Channel 2 Alarm
DIP-3 switch 4 ON	Channel 1 Alarm	Channel 2 Warning



Sensor Table

Input Type	Model Code	Standard Calibration		Mounting height
		Warning	Alarm	
4 to 20 mA DC	01	7.2 mA (20%)	10.4 mA (40%)	NA
SS - SENSOR	02	NO CALIBRATION		NA
SS - Carbon Monoxide (CO)	16	50 PPM in VE	100 PPM in VE	4 to 5'
SS - Combustible	17	10% LEL Prop.	20% LEL Prop.	1 to 1-1/2'
SS - Ammonia (NH3)	22	35 PPM	300 PPM	Ceiling
SS - Freon R11	26	500 PPM	1000 PPM	1 to 1-1/2'
SS - Freon R12	27	500 PPM	1000 PPM	1 to 1-1/2'
SS - Freon R22	28	500 PPM	1000 PPM	1 to 1-1/2'
SS - Freon R134a	30	500 PPM	1000 PPM	1 to 1-1/2'

SPECIFICATIONS:

POWER SUPPLY
104 TO 132 VAC, 47 to 63 Hz
18 VA MAXIMUM

RELAYS
250 VAC/30 VDC
5 Amps Res./3.7 Amps Ind. (See table below)

ENVIRONMENT
Temperature: -20°C to 50°C (0°F to 12°F)
Humidity: 0 to 90 % Non-Condensing

CONTROLLER/SENSOR MOUNTING

CABLE ENTRY
1/2" Conduit entry holes supplied on top, as shown.

ENCLOSURE
Molded fiberglass polyester, Grey, Nema 4X

WIRE
Connection: Terminal block,
Size: Min. 24 AWG (0.51 mm)
Size: Max. 14 AWG (1.6 mm)

LISTING/APPROVALS

CSA, C22.2 - No. 205, UL recognized DPDT relays

NOTES:

- "VE" = Vehicle exhaust.
- Combustible Calibration is to LEL Propane.
- Mounting height is in distance from floor where dimension is given.
- "Ceiling" in mounting height indicates highest point where gas can accumulate.
- Sensor not included.

CAUTION

Do not mount Solid State Sensors near fans or doors where high velocity drafts occur or where clean air enters.

When painting in the area, turn unit OFF, seal Solid State Sensor openings with masking tape.

For maximum visibility, avoid mounting units with optional digital display(s) in direct sunlight.

DRN	Y.DUBE	97-04-23	QUATROSENSE ENVIRONMENTAL LTD		
CHK	DM	05-01-11	RICHMOND, ONTARIO, CANADA		
DSGN	DM	97-08-12	QAS-200 DUAL-CHANNEL		
APVD			CONTROLLER INSTALLATION		
Q.A.			DRAWING (115 VAC)		
APPLICATION					
DIMENSIONS ARE IN INCHES. DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS AND SHOWN FOR REFERENCE ONLY					
SIZE	B	TYPE	ID	DWG NO	REV
SCALE		FILENAME		62050-002-000	D
					0 SHEET 2 OF 2