

JUMPER SUMMARY * = FACTORY SETTING (FOR CHANNEL A)

- 1) J1A INSTALLED = CHANNEL A RX FUNCTION ENABLED *
 J1B INSTALLED = CHANNEL A RX OFF WHEN TX ENABLED
 NO JUMPER = CHANNEL A RX FUNCTION DISABLED
- 2) J2A INSTALLED = CHANNEL A TX FUNCTION DISABLED
 J2B INSTALLED = CHANNEL A AUTO TX ENABLE *
 NO JUMPER = TX FUNCTION ENABLED
- 3) J3/J5 INSTALLED = 620 OHM PULLUP AND PULL DOWN BIAS *
 J3/J5 REMOVED = NO BIAS
- 4) J4 INSTALLED = 120 OHM TERMINATION FOR RX/TX TERMINALS *
- 5) J6A/J7A INSTALLED = 2-WIRE MODE (RS485)
 J6B/J7B INSTALLED = 4-WIRE MODE (RS422) *

- 6) J8/J10 INSTALLED = 620 OHM *
 PULLUP AND PULL DOWN BIAS
 J8/J10 REMOVED = NO BIAS
- 7) J9 INSTALLED = 120 OHM *
 TERMINATION FOR TX TERMINALS

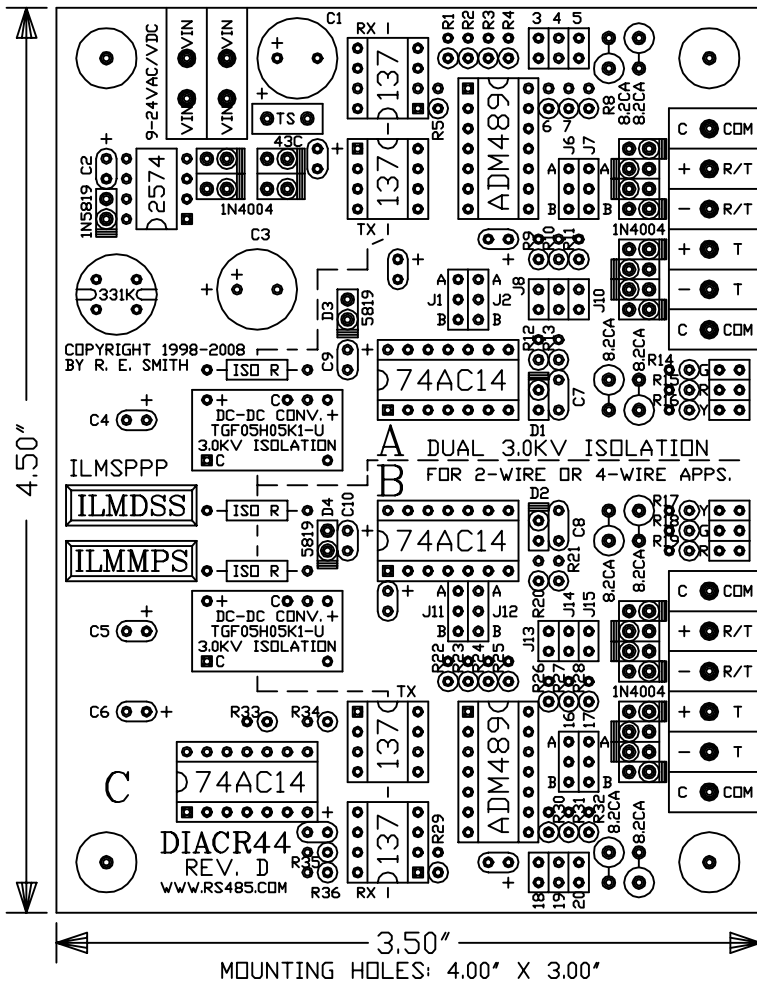
CHANNEL B EQUIVALENT JUMPERS:
 ADD 10 TO CHANNEL A SETTINGS FOR
 CHANNEL B SETTINGS (SAME MODE, 4-WIRE))

SPECIFICATIONS

- 1) SIZE: 4.50" X 3.50" X 0.9" (PC BOARD)
 WITH CONNECTORS: 5.0" X 4.0"
- 2) MOUNTING HOLES: 4-PLACES
 4.00" X 3.00" (#6 HARDWARE)
- 3) ISOLATION VOLTAGE: 3000VDC (1 SEC.)
- 4) TEMPERATURE RANGE: 0C TO 65C
- 5) HUMIDITY: 10-90% RH NON-CONDENSING
- 6) BAUD: 50-115.2K (LIMITED SLEW DRIVERS)
- 7) OPERATING VOLTAGE: 9-35VDC (12-24VAC)
- 8) TYPICAL POWER: UNDER 1.0W
- 9) OPERATING MODES
 - A) RS422 TO RS422 REPEATER
 - B) RS485 TO RS485 REPEATER
 - C) RS485 TO RS422 CONVERTER
 (RS422 TO RS485 ALSO)
- 10) AUTO TX ENABLE OR CONSTANT
 TX ENABLE IN RS422 (4-WIRE) MODE

NEW IMPROVED ISOLATION VOLTAGE
 AND JUMPER OPTIONS FOR REV. C UNITS.

LINK: rs485.com/pdiacr44.html
 L2 = 4.50" X 3.50"



(SET FOR RS422)
 ISOLATED CHANNEL A

COMMON
 (+)RX/TX (2-WIRE)
 (-)RX/TX (2-WIRE)
 (+)TX (4-WIRE)
 (-)TX (4-WIRE)
 COMMON
 RX DATA
 TX DATA
 ISO. PWR

ISO. PWR
 RX DATA
 TX DATA
 COMMON
 (+)RX/TX (2-WIRE)
 (-)RX/TX (2-WIRE)
 (+)TX (4-WIRE)
 (-)TX (4-WIRE)
 COMMON

ISOLATED
 CHANNEL B
 (SET FOR
 RS485)

This drawing is the property of R. E. SMITH and shall not be used except with the written permission of R. E. SMITH, no copies shall be made of it and all proprietary rights in the matter contained in this drawing are the property of R. E. SMITH. COPYRIGHT - R. E. SMITH, 1999-2013		DRAWN BY RES	SUBJECT RS422 OR RS485
SHEET 1 OF 1		DATE 7-9-12 REV 10-25-13	FOR DUAL-ISO CONV/REP
DICAR44WD		SCALE NONE	RES R. E. SMITH 10330 CHESTER ROAD CINCINNATI, OH 45251
CHKD. BY RES		DWG. NO. DICAR44WD	REV. D