

RS485-RS422
 485/422
 485/422
 RS422
 RS422
 COMMON
 TX-
 TX+
 RX-
 RX+
 COM
 #5
 #4
 #3
 #2
 #1

#5 TX- FOR RS485(RX-)/RS422] RS485 TX/RX
 #4 TX+ FOR RS485(RX+)/RS422] RS422 TX ONLY
 #3 RX- FOR RS485(4-WIRE)/RS422] RS485 4-WIRE RX
 #2 RX+ FOR RS485(4-WIRE)/RS422] RS422 RX ONLY
 #1 COMMON (I=JHC HARD COM, R=JHC 100-OHMS COM)
 (IF COMMON IS USED, RECOMMEND REMOVE JHC)
 (I=INSTALL, R=REMOVE)

JUMPER MODE SELECTIONS AND TERMINAL WIRE CONNECTIONS										
TXDN	J5	JTXB-	JTXB+	JTXT	JRXB-	JRXB+	JRXT	WIRE TO TERM#	COM#1	MODE/NOTES
R	A	I	I	I	I	I	I	5,4,3,2	OPTIONAL	RS422(MULTIDROP, AUTOMATIC)*
R	A	I	I	I	I	I	I	5,4,3,2		RS422(MASTER, TX=100% DN)
R	B	I	I	I	I	I	I	5,4		RS485(2-WIRE, HALF-DUPLEX)
R	B	I	I	I	I	I	I	5,4		RS485(LOOP-BACK, RX=100% DN)

A=INSTALL A, B=INSTALL B
 *=FACTORY DEFAULT SETTING
 I=INSTALL, R=REMOVE
 J5 IN 'A' POSITION = AUTOMATIC

REMOVE JTXT AND/OR JRXT AS NECESSARY FOR NO TERMINATION
 LIMIT BIAS- & BIAS+ TO 3 LOCATIONS FOR EACH TWISTED WIRE PAIR
 DEFAULT SETTINGS (AUTOMATIC)* SHOULD WORK FOR MOST APPLICATIONS

MODEL RSCOM3A REV A

THE RSCOM3A IS A FAST AUTOMATIC BIDIRECTIONAL ASYNCHRONOUS RS232<=>RS485 (2-WIRE) CONVERTER WITH AUTOMATIC TX ENABLE FOR ALL DATA RATES/BIT FORMATS TO 115.2Kbps+ @ 4000ft. THIS UNIT ALSO SUPPORTS RS232 <=>RS422 (4-WIRE) OPERATION WITH THE ABILITY TO ENABLE THE TRANSMITTER 100% OR ALLOW IT TO TRI-STATE AS DESIRED. THE UNIT IS ABLE TO ACCOMMODATE FAST RESPONDING RS485 OR RS422 DEVICES AND PREVENT "DATA COLLISIONS". TURN-AROUND DELAYS ARE ELIMINATED AND SOFTWARE CHANGES ARE NOT REQUIRED. TWO SETS OF LED INDICATORS SHOW PWR, TXD & RXD ON EACH SIDE OF THE INTERFACE. BUILT-IN ESD & OVER CURRENT PROTECTION.

QUICK DATA & INFORMATION

BIDIRECTIONAL RS232<=>RS485 & RS422(4-WIRE)	DATA RATE UP to 115.2Kbps AUTO TX ENABLE
TEMP/HUMIDITY -40C to 85C 10-90%RH NON-CD	VOLTAGE & PWR Vin = 9-35VDC 1.0 WATTS TYP.
PROTECTION 22 OHM SERIES RESISTANCE	ASYNCHRONOUS DATA ANY SPEED & BIT FORMAT
LED INDICATORS, BIAS&TERMINATION JUMPERS, FAST TURN-AROUND TIME AVOIDS DATA-COLLISIONS & DELAYS	
TALK TO RON THE DESIGN ENGINEER 513-638-0228 CELL, NO TEXTING PLEASE, EXCEPT FOR PHONE NUMBER EMAIL ADDRESS AND YOUR NAME.	

RSCOM3A IS DESIGNED FOR OFFICE AND/OR LIGHT INDUSTRIAL APPLICATIONS (NON-ISOLATED), AND PROVIDES SUPERIOR CHARACTERISTICS/FEATURES NORMALLY FOUND ON HIGH END CONVERTERS. USE FOR POINT-TO-POINT AND MULTI-DROP APPLICATIONS. LOOP-BACK JUMPER FOR FIELD TESTING, -40C TO 85C, 10%-90% RH (NON-CONDENSING) OPERATION. OPTIONAL CONFORMAL COATING (CALL). OUR MOST POPULAR UNIT FOR MID-RANGE SYSTEMS. THIS UNIT WAS DESIGNED TO REPLACE SEVERAL OF OUR PREVIOUS MID-RANGE CONVERTERS WHILE INCORPORATING EASE OF USE AND ENHANCED FLEXIABILITY.



■ JUMPER INSTALLED (FACTORY SETTING)
 I=INSTALL, R=REMOVE

CONVERTER ONLY \$79.00ea.
 WITH ENCLOSURE \$89.00ea.
 12VDC@1.0A WALL PS \$8.50
 DB9F-7 RS232 CABLE \$7.50ea.

LINK: rs485.com/prscom3a.html/

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	DATE 6-14-16 REV. 6-12-20	FOR AUTOMATIC CONV.
SHEET 1 OF 1	RSCOM3AQD	CHKD. BY RES
RES R. E. SMITH 10330 CHESTER ROAD CINCINNATI, OHIO 45215		DWG. NO. RSCOM3AQD REV. A