

1			_
DESCRIPTION	DATE	APPROVAL	
DUCTION ISSUE	2004-11		
			D
nnected by optical fiber to the r card is connected to the recei	eceiver (RX ver of the re	() of the mote	
r optimum porformanco A 10d	P fixed atta	nuctor or	
d for testing. Fiber spools are o	ptional, but		
me type, e.g. singlemode (SMF	[;]), 50/125un	n	
power harnesses provided. The le from the power source must	e power sou be regulate	rce must d +5Vdc	С
ach 907 card will be ON (greer	n). If the opt	ical link is	
ach laser is good (>-4dBm) an	d the optica	l receiver	
eaned prior to mating them.	able ale leq		
nal generator to video channel	#1 on the 9)07-R and	
rds and BNC connectors for the	e video equ	ipment.	
ach end of the system. A high nannels may be tested by attac	quality vide	o signal ables	
dicate a marginal optical link.	ining toot of		B
			-
OPERTY OF FOCAL TECHNOLOGI PIED, REPRODUCED, OR OTHERV	ES CORPORA VISE DEALT V	ATION VITH NOR	
CATED TO OTHERS EXCEPT IN AC RECEIVED FROM FOCAL TECHNO	CORDANCE	WITH RPORATION.	
FOCAL TECHNOLOGIE	S CORPOR	RATION	
– 40 THORNHILL DF DARTMOUTH, NS CA	NADA, B3B 1	S1	A
MODEL 907 TEST C	CONFIGUI	RATION	
		ISSUE	-

TYPE	DRAWING NO.	ISSUE
SK	907-2014-00	Α

Β

 RS222 DATA TEST A connect one of the NR-RS-232 data columnels at 807-R and 907-C per wiring diagram of the Moles Consort on a personal computer (PC). Wing a DB-9 COM port for PC to PC data transmit restrictions to below. Other types of port or connectors may require different wing. A terminal program of the Moles Consort on a personal computer (PC). Wing a DB-9 COM port for PC to PC data transmit restrictions at the PC restriction of the Moles Consort on a personal computer (PC). Wing a DB-9 COM port for PC to PC data transmit restrictions at the PC restriction of the Moles Consort on a personal computer (PC). Wing a DB-9 COM port for PC to PC data transmit program of the Moles Consort on a personal computer (PC). Wing a DB-9 COM port for PC to PC data transmit PC to PC data transmit program of the Moles Consort on a personal computer (PC). Wing a DB-9 COM port for PC to PC data transmit PC to PC data transmit	4	3	2
<text></text>	RS232 DATA TEST:		
DTE(PC) 907-R UNK 907-C DTE(PC) TXD 3 DE-9 DE-9 DE-9 If an Ethemet card (907-EtB) is added to the system, typically channels 1 - 4 are ON continously. DE-9 DE-9 States DATA TEST 6 Connect one of the two RS-485/422 data channels 1 - 4 are ON continously. States Data Test 0 States Data Test States Data Test 6 Connect one of the two RS-485/422 data channels at 907-R and 907-C Molex connectors per wring in according to 807.7201.00. Transared intractive (RX+7) pins on the 907 cards are referenced to the 907 (TX pins are driven by the 907). See diagram below: OPTICAL UNIX UNIX OPTICAL UNIX UNIX UNIX OPTICAL UNIX UNIX UNIX UNIX TX TX Triptical UNIX UNIX UNIX UNIX UNIX UNIX UNIX UNIX UNIX UNIX Triptical UNIX UNIX UNIX UNIX UNIX UNIX UNIX UNIX UNIX UNIX UNIX UNIX UNIX UNIX Triptical UNIX UNIX UNIX	 Connect one of the four RS-232 data channel connector in 907-2001-00. Transmit (TXD) an the 907 (transmit pins are driven by the 907). COM port on a personal computer (PC). Wirir below. Other types of port or connectors may may be used to test basic functionality of the 	Is at 907-R and 907-C per wiring diagram of the Molex ad receive (RXD) pins on the 907 cards are referenced Terminating devices are typically DTE types, such as ng a DB-9 COM port for PC to PC data transfers is sho require different wiring. A terminal program on the PC RS-232 link.	9. Data LEDs (DN1, DN2DN6; UP1, UP traffic. Red data LEDs monitor data red transmitted from the 907. Uplink (UP) a independent. Uplink LEDs at one end s end. For example, UP2 red LED ON at be matched by UP2 green LED ON at
Image: Construction of the two RS-485/422 data channels 1 - 4 are ON continuously. RS485 DATA TEST 8. Connect one of the two RS-485/422 data channels at 907-R and 907-C Molex connectors per wiring in 907-2001-00. If RS-485 autosense is required, ensure DIP switches on the 907 cards are set accounting to 907-2001-00. Transmit (Tx+)-) and receive (RX+/-) pins on the 907 cards are set accounting to 907-2001-00. Transmit (Tx+)-) and receive (RX+/-) pins on the 907 cards are set accounting to 907-2001-00. If RS-485 autosense is required, ensure DIP switches on the 907 cards are set accounting to 907-2001-00. Transmit (Tx+)-) and receive (RX+/-) pins on the 907 cards are set accounting to 907-2001-00. If RS-485 autosense is required. UNK Image: RS-485 port.R Image: RS-485 port.	DTE(PC) 907-R RXD 2 RS-232 TXD	UNK 907-C DT	E(PC)
than Ethernet card (907-EIB) is added to the system, typically channels 1 - 4 of the 907 are disabled. THIS configuration 907 Tx and Rx LED's for data channels 1 - 4 are ON continously. THIS DRAWING IS THE PROFENSION TO THE SHORE S	TXD 3 COM 5 DB-9		KD 3 DM 5 -9
RS485 DATA TEST S. Connect one of the two RS-485/422 data channels at 907-R and 907-C Molex connectors per wiring in 907-2001-00. If RS-485 autosense is required, ensure DIP switches on the 907 cards are set according to 907-2001-00. Transmit (TX+/-) and receive (RX+/-) pins on the 907 cards are referenced to the 907 (TX pins are driven by the 907). See diagram below: OPTICAL LINK UNR INTRA- (2 WIRE) TX/RX+1/ and receive (RX+/-) pins on the 907 cards are referenced to the 907 (TX pins are driven by the 907). See diagram below: OPTICAL LINK INTRA- (2 WIRE) TX/RX+1/ TX/RX+1/ TX/RX+1/ TX/RX+1// TX/RX+	If an Ethernet card (907-EIB) is added to the In this configuration 907 Tx and Rx LED's for	system, typically channels 1 - 4 of the 907 are disable data channels 1 - 4 are ON continously.	d.
INK 907-C RS-485 (2 WIRE) TX/RX+ TX/RX+ TX/RX+ TX/RX+ TX/RX+ TX- TX/RX+ TX/RX+ TX- TX- TX/RX+ TX- TX- TX/RX+	RS485 DATA TEST 8. Connect one of the two RS-485/422 data cha 907-2001-00. If RS-485 autosense is required according to 907-2001-00. Transmit (TX+/-) a to the 907 (TX pins are driven by the 907). Se	nnels at 907-R and 907-C Molex connectors per wiring d, ensure DIP switches on the 907 cards are set nd receive (RX+/-) pins on the 907 cards are referenc ee diagram below: OPTICAL	g in ed
Image: Second	TX/RX+ RS-485 907-R (2 WIRE) TX/RX+ TX/RX- TX/RX+	LINK 907-C RS-485 (2 WIRE) TX/ TX/RX+ TX/RX- TX/	'RX+ 'RX-
OPTICAL LINK OPTICAL LINK ToteRances (except as noted) This DRAWING IS THE PROPE AND MAY BE NEITHER COPIE ITS CONTENTS COMMUNICAT WRITTEN INSTRUCTIONS REG 2: 3 DECIMAL PLACES +/- 0.005 3: 0 DECIMAL PLACES +/- 0.005 4: FRACTIONS +/- 1/32 This DRAWING IS THE PROPE AND MAY BE NEITHER COPIE ITS CONTENTS COMMUNICAT WRITTEN INSTRUCTIONS REG 2: 3 DECIMAL PLACES +/- 0.005 4: FRACTIONS +/- 1/32 High data rates on RS-485 or RS-422 may require use of UTP or STP cable with controlled impedance, typically 100 or 120 ohms. Optional line terminators may be enabled on the 907 per 907-2001-00. There must be a common ground reference between each 907 and data source, typically via power grounds. EDS SENSITIVE PARTS MAY BE USED. TAKE PRECAUTIONS. CHECKED I. MACKAY 4 3 2	RS-422 907-R (4 WIRE) RX+ RX+ RX+ RX+ RX- TX+ TX+ TX+ TX+ TX+ TX+ TX+ TX+	907-C RX+ RX- TX+ TX+ TX+ RX RX RX RX RX RX RX	* - + -
sonar processors) at the other end. Basic functionality may be tested with a PC to PC link, as in the RS-232 tests, with RS-232 to RS485/422 converter boxes. High data rates on RS-485 or RS-422 may require use of UTP or STP cable with controlled impedance, typically 100 or 120 ohms. Optional line terminators may be enabled on the 907 per 907-2001-00. There must be a common ground reference between each 907 and data source, typically via power grounds. 4	Terminating devices are typically sensors (e.c	OPTICAL LINK J. sonars) at one end and master controllers (e.g.	TOLERANCES (EXCEPT AS NOTED)THIS DRAWING IS THE PROPE AND MAY BE NEITHER COPIEL ITS CONTENTS COMMUNICAT WRITTEN INSTRUCTIONS REC1. DIMENSIONS IN INCHES 2. 3 DECIMAL PLACES +/- 0.005WRITTEN INSTRUCTIONS REC
907-2001-00. There must be a common ground reference between each 907 and data source, typically via power grounds. DATE 2004-11-17 MATERIAL N/A FILENAME 907-2014-00A.CDR SI SCALE NTS SHEET 2 OF 2 FILENAME 4 3 2 4	sonar processors) at the other end. Basic func- the RS-232 tests, with RS-232 to RS485/422 High data rates on RS-485 or RS-422 may re impedance, typically 100 or 120 ohms. Optior	ctionality may be tested with a PC to PC link, as in converter boxes. quire use of UTP or STP cable with controlled nal line terminators may be enabled on the 907 per	3. 2 DECIMAL PLACES #/-0.010 A. CRESS 4. FRACTIONS +/- 1/32 DRAWN 5. ANGLES +/- 0.5 DEGREE CHECKED CHECKED MAY BE USED. TAKE PRECAUTIONS APPROVED TI
Inish N/A PileNAME 907-2014-00A.CDR Si SCALE NTS SHEET 2 OF 2 4 3 2 4	907-2001-00. There must be a common groun typically via power grounds.	nd reference between each 907 and data source,	MATERIAL N/A DATE 2004-11-17
4 3 2			N/A FILENAME 907-2014-00A.CDR SI SCALE NTS SHEET 2 OF 2
	4	3	2

D

С

В

А

		1		
UP2. receiv) and d sho at the at the	UP6) ved into d down buld be e 907-0	indicate presence and direction of o the 907; green LEDs monitor data link (DN) channels and LEDs are matched by uplink LEDs at the othe R (data received on channel 2) shou C (data transmitted on channel 2).	er Ild	D
				С
				В
PPERT IED, F ATED ECEI TITLE SIZE	TY OF FOR REPROE TO OTH VED FR FOCA E MOD	DCAL TECHNOLOGIES CORPORATION DUCED, OR OTHERWISE DEALT WITH NO HERS EXCEPT IN ACCORDANCE WITH OM FOCAL TECHNOLOGIES CORPORAT LTECHNOLOGIES CORPORATION 40 THORNHILL DRIVE, UNIT 7 DARTMOUTH, NS CANADA, B3B 1S1 EL 907 TEST CONFIGURATION DRAWING NO. 907-2014-00	DR TION. N DN ISSUE A	А
	UP2. receiv) and d sho at the PERT IED, F ATED ECEI	UP2UP6) received into 9 and down d should be at the 907- at the 907- at the 907- TITLE FOCA SIZE TYPE B SK	JP2UP6) indicate presence and direction of received into the 907; green LEDs monitor data) and downlink (DN) channels and LEDs are d should be matched by uplink LEDs at the other at the 907-R (data received on channel 2) shouat the 907-C (data transmitted on channel 2). PPERTY OF FOCAL TECHNOLOGIES CORPORATION IED, REPRODUCED, OR OTHERWISE DEALT WITH NG ATED TO OTHERS EXCEPT IN ACCORDANCE WITH EXCEVIVED FROM FOCAL TECHNOLOGIES CORPORATION IED, REPRODUCED, OR OTHERWISE DEALT WITH NG ATED TO OTHERS EXCEPT IN ACCORDANCE WITH EXCEVIVED FROM FOCAL TECHNOLOGIES CORPORATION IED, REPRODUCED, OR OTHERWISE DEALT WITH NG ATED TO OTHERS EXCEPT IN ACCORDANCE WITH EXCEVIVED FROM FOCAL TECHNOLOGIES CORPORATION 140 THORNHILL DRIVE, UNIT 7 DARTMOUTH, NS CANADA, B3B 1S1 TITLE MODEL 907 TEST CONFIGURATION SIZE TYPE DRAWING NO. B SK 907-2014-00	PPERTY OF FOCAL TECHNOLOGIES CORPORATION IED PPERTY OF FOCAL TECHNOLOGIES CORPORATION IED IED