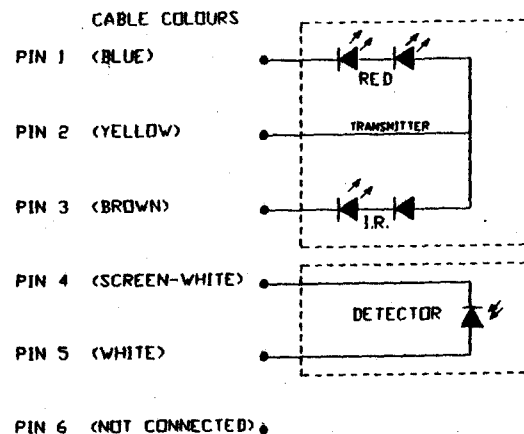
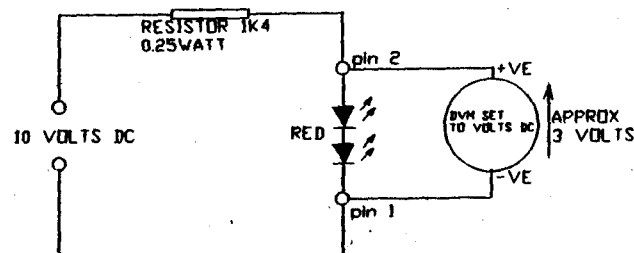


CIRCUIT DIAGRAM MSA(R) OXYMETER PROBE



THE FOLLOWING CIRCUIT CAN BE USED TO TEST THE RED SERIES DIODES:-



The probe contains two series connected red transmitters and two series connected infra-red transmitters both having a common anode. The forward voltage of the infra-red transmitters is approximately 2volts, which can be tested with a normal digital multimeter diode test function. However the forward voltage drop of the red transmitters is approximately 3.2volts, these diodes can not be tested with a normal DVM using the diode test function, the DVM will indicate an open-circuit even when the diodes are intact. The probe does not contain a wavelength identity resistor, therefore the transmitters will be of the close tolerance type and the wavelength is critical for correct oxygen readings. The probe detector can be tested using the normal DVM diode test facility. Note: To guarantee correct function on the target SA02 monitor these series diodes will be required. The only manufacturer I have seen who uses two diodes in series is DATASCOPE and they only use this configuration for the RED diodes.

SPECIFICATIONS	CONTRACT NO.	DATE	COMPANY		
	DRAWN BY DAVE BROUGH	18/1/99	DL ELECTRONICS		
PART No. 496412	CHECKED BY		TITLE		
S/No.002877	DESIGNED BY		MSA(R) PROBE DRAWING		
	DESIGN ACTIVITY PROBE EVALUATION		SIZE A4	FSCM NO.	DWG NO. / FILE NAME MSA(R)PR.SKD
	CUSTOMER VIAMED LTD/PETER LAMB		SCALE 1mm = 1mm	DATE 18th JAN 1999	SHEET 1 of 1