

SPECIFICATION:-

▲ 1. VEHICLE OPERATING SYSTEM VOLTAGE: 24V DC WITH -Ve GROUND 2. WARRANTY TERMS:- 3 YEARS/3,00,000 Kms. WHICHEVER IS EARLIER.

3. MECHANICAL:-

▲ 3.1 SENSOR HEAD OF FUEL SENSOR ARE SUITED FOR MOUNTING OF FUEL TANK WITH Ø50.5mm HOLE (AS PER VIEW 'C')

▲ 3.2 FITMENT OF FUEL SENDER :-BAYONET TYPE WITH 'O' RING

USE PROPER TOOL FOR FITMENT OF FUEL SENDER IN FUEL TANK

INSTALLATION TORQUE :-VERTICAL FORCE ATLEAST 400N. MAINTAIN THE VERTICAL PRESS & ROTATE THE GAUGE 30° CLOCKWISE.

DO NOT USE MORE THAN 45Nm. THERE SHOULD BE NO LEAKAGE OF FUEL AFTER THE UNIT IS TIGHTENED

3 ▲ 3.3 SUCTION/RETURN FITTING/PLUG TORQUE: 20±5Nm

① 3.4 FILTER PULL OUT FORCE AFTER ASSEMBLY SHOULD NOT BE LESS THAN 8.0 kg-f

(6_1) (4) (♣ 3.5 SEALING OF SENSOR HEAD : IP69K

4. ELECTRICAL:-

4.1 FOR ELECTRICAL CONNECTION PLEASE REFER TABLE 'B'

▲ 4.2 OPERATING VOLTAGE : 9-32 VDC WITH 80V OVER VOLTAGE PROTECTION

▲ 4.3 SUPPLY CURRENT : 15 mA @ 12VDC : 23 mA @ 24VDC

: 0.5 VDC (EMPTY) TO 5VDC (FULL)

4.5 RESOLUTION

: ±2.0% @ 20°C (+68°F) IN DIESEL WITH DIELECTRIC CONSTANT VALUE OF 2.1 TO 2.3

▲ 4.7 SLEEP CURRENT : 10mA MAX.

5. ENVIRONMENTAL:-

▲ 5.1 OPERATING TEMPERATURE RANGE :- -40 TO +85 DEG. CELCIUS.

▲ 5.2 STORAGE TEMP. RANGE :- -40 TO +90 DEG. CELCIUS

● 5.3 ALL STEEL PARTS ARE TO BE ZINC PLATED & TRIVALENT YELLOW PASSIVATED

AS PER FeZn8 Cr III Y AS PER TS:10812 NOTES:-

● 1. O RING WILL BE PART OF SUPPLY.

• 2. TANK UNIT TO BE PASSED UNDER TML AGREED DVP

1 3. FUEL SENDER TO BE CALIBRATED AT ALL FUEL INDICATION LEVEL

▲ 4. THE FUEL SENDER IS SELF CALIBRATING, WHICH MEANS ITS ACCURACY STAYS WITHIN ±10% EVEN IF

USED IN A DIFFERENT FUEL, AS LONG AS DIELECTRIC CONSTANT OF FUEL IS WITHIN 1.75 TO 3.0.

(1) ● 5. THE PCBA SHOULD HAVE CONFORMAL COATING

1) • 6. GUIDING STRIPS (02 NOS.) TO BE USED IN BOTH THE PROBES ASSEMBLY

7. DIMENSIONS WITHOUT TOLERANCE ARE FOR REFERENCE ONLY.

(5) ▲ 8. LOCTITE SI 5910 SHOULD BE USED FOR SENSOR HEAD SEALING

CALIBRATION TABLE: 'A'

OALDIVITOR TABLE. A							
s.no.	FUEL LEVEL	HEIGHT FROM FUEL TANK BOTTOM (MM.)	OUTPUT VOLTAGE (V)	FUEL CAPACITY (L) (±1LTRS.)			
			(±2% OF FULL SPAN)	192 LTRS			
1	FULL	501	5.0	192.0			
2	3/4	383	3.85	139.0 2			
3	HALF	271	2.75	98.15			
4	1/4	157.5	1.64	51.1			
5	EMPTY (HIGH)	99	1.07	27.4			
6	EMPTY (LOW)	41	0.5	5.4			
7	DEAD VOLUME	25	0.5	2.8			

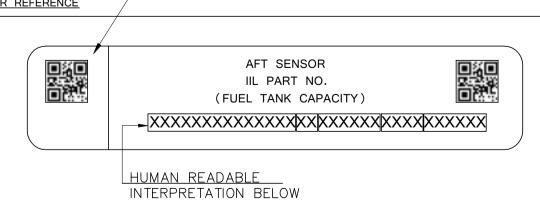
▲ TABLE: `B'

CONNECTOR CONFIGURATION					
PIN	PIN TYPE				
1	V+ (SUPPLY)				
2	V- (GROUND)				
3	3 SIGNAL OUT (0.5-5V)				
4	4				

SUB ASSLY. SERVICABLE PART LIST

S.NO.	PRODUCT	QTY.	IIL PART No.	CUST. P/No.
1	O RING	01	ORN 40.002 1	5120 5430 78 O1N
2	FILTER	01	PFC 40.001	5039 5430 36 01N
3	ENGINE SUCTION FITTING ASSLY.	01	SFA 40.001	5039 5430 68 01N
4	ENGINE RETURN FITTING ASSLY.	01	RFA 40.001	5039 5430 68 02N





XXXXXXXXXXXXX - TML P/No. (14 DIGITS)

XX - TML DRG. MOD NO. (2 DIGITS) XXXXXX - IIL VENDOR CODE (6 DIGITS)

XXXX - MANUFACTURING MONTH (2 DIGITS) & MANUFACTURING YEAR (2 DIGITS)

XXXXXX - SERIAL No.(6 DIGITS) OF AFT SENSOR WILL BE RESET ON MONTHLY BASIS

REFERENCE STANDARD:- TS11879 & TS10806 (1)

BILL OF	MATERIAL:-				
S.NO.	PART NAME	QTY.	MATERIAL		
1	SENSOR HEAD	01	ALUMINIUM ALLOY ADC-12 2 1		
2	BAYONET COVER	01	STAINLESS STEEL AISI TYPE 304 1		
3	O-RING ID 55.0 X THICK. 6.4mm. (1)	01	NITRILE HARDNESS SHORE `A' 70 ±5 COLOUR-BLACK		
4	CAPACITIVE TUBE (MAIN EXTRUSION)	01	ALUMINIUM 6060/6005		
5	SUCTION TUBE Ø10.0	01	COPPER COATED STEEL TUBE		
6	RETURN TUBE Ø8.0	01	COPPER COATED STEEL TUBE		
7	CONNECTOR	01	PBT, GF 30%		
8	COVER	01	PBT, GF 30% (4)		
9	ENGINE SUCTION FITTING	01	EDEE CUITING STEEL HEY DOD		
10	ENGINE RETURN FITTING	01	FREE CUTTING STEEL HEX ROD		
11	AUXILIARY SUCTION TUBE Ø6.3	01	COPPER COATED STEEL TUBE 1		
12	PLUG SUCTION/RETURN M8X1.0	02	FREE CUTTING BRASS		
13	FILTER	01	NYLON - 6		
14	CONNECTOR SEALING RING	01	NBR+PVC (70:30), COLOUR-BLACK		
15	SENSOR HEAD SEALING RING	01	NBR COLOUR-BLACK		
16	ENGINE SUCTION PLUG M14X1.5	01			

