

Pursuant to section 12 of the
Weights and Measures Act 1985

Certificate 1940 Amendment 36

Issued by:
The National Measurement Office

Submitted by:

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This Certificate is amended to include the addition of the following authorised alternatives and other clarifications as described in the Descriptive Annex.

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Signatory: P R Dixon
for Chief Executive

Descriptive Annex

1 INTRODUCTION

The Series C is a range of dispensers for use in attended or unattended mode. The housing comprises a hydraulics enclosure with an electronics enclosure above it. Hose connections are made at the hydraulic housing. The appearance has changed considerably since initially being approved; example arrangements are shown in Figures 1 to 14

The dispensers described in this certificate are suitable for use with fuels including petrol, ethanol blended petrol, petrol with up to 5% methanol, petrol with up to 15% MTBE, diesel and biodiesel blends.

2 CONSTRUCTION

2.1 The dispenser is constructed from any combination of the following prime components providing there are no conflicting characteristics within the relevant Evaluation Certificates. Where no Evaluation Certificate is stated these components are already approved for use. The components in bold are first added in this amendment.

Table 1 Prime Component Summary

Manufacturer	Type	Evaluation Certificate
Meters		
Tatsuno	FM1007	GB-1441
Pumptronics	FM-00H101	GB-1442
Gas Separators		
Tatsuno	FP1012	GB-1438
Tatsuno	FP1001	GB-1439
Pumptronics	FP-00H102	GB-1440
Electronic Calculator		
Pumptronics	CPU / PSU	
Pumptronics	CPP	
Encoders		
MBM		
Scancom		
Eltomatic		

Table 2 Prime Component Characteristics

	Ambient temp	Liquid temp	Viscosity range	Q_{min}	Q_{max}	P_{max}
FM1007 meter	-25°C to +55°C	-10°C to +40°C	0.4mPa.s to 17 mPa.s	3 LPM	90 LPM	3.5 bar
FM-00H101 meter	-25°C to +55°C	-10°C to +40°C	0.4mPa.s to 17 mPa.s	3 LPM	90 LPM	3.5 bar
FM1007 meter When doubled and linked as single outlet	-25°C to +55°C	-10°C to +40°C	0.4mPa.s to 17 mPa.s	3 LPM	180 LPM	3.5 bar
FM-00H101 meter When doubled and linked as single outlet.	-25°C to +55°C	-10°C to +40°C	0.4mPa.s to 17 mPa.s	3 LPM	180 LPM	3.5 bar
FP1012	-25°C to +55°C	-10°C to +40°C	0.4 mPa.s to 17 mPa.s	-	90 LPM	3.5 bar
FP1001	-25°C to +55°C	-10°C to +40°C	0.4 mPa.s to 17 mPa.s	-	90 LPM	3.5 bar
FP-00H102	-25°C to +55°C	-10°C to +40°C	0.4 mPa.s to 17 mPa.s	-	90 LPM	3.5 bar
FP1012 When doubled and linked as single outlet	-25°C to +55°C	-10°C to +40°C	0.4 mPa.s to 17 mPa.s	-	180 lpm	3.5 bar
FP1001 When doubled and linked as single outlet	-25°C to +55°C	-10°C to +40°C	0.4 mPa.s to 17 mPa.s	-	180 LPM	3.5 bar
FP-00H102 When doubled and linked as single outlet	-25°C to +55°C	-10°C to +40°C	0.4 mPa.s to 17 mPa.s	-	180 LPM	3.5 bar

3 OTHER COMPONENTS AND ARRANGEMENTS CRITICAL TO METROLOGY

3.1 When one pump and gas separator feeds two meters which in turn feed separate hoses, a control valve is fitted in the hydraulic circuit associated with each meter. (Single Product Twin)

3.2 The combination of hose type and length is selected to ensure hose dilation does not result in a displayed quantity at the start of a transaction prior to the nozzle being operated.

3.3 180 LPM approval. This is where two (90 LPM) pumps and two meters are combined into a single outlet to create 180 LPM

4 Optional Components and Arrangements

4.1 Optional Chassis Construction

4.1.1 The electronics enclosure facia may be constructed of steel, aluminium, or plastic, or a combination of these materials.

4.1.2 The dispenser housing may be used for the construction of a satellite Unit containing a hose and nozzle circuit fed from the hydraulics in a remote master dispenser. This unit may optionally house a display repeating the transaction information shown on the master. The satellite is deemed to be a nozzle of the master unit. Two satellites may share a single housing.

5 LOCATION OF SEALS

5.1 Securing is detailed in the Evaluation Certificates for the individual components.

5.2 Components may additionally be sealed to the dispenser frame, or alternatively, may be specifically listed by serial number on a datasheet which remains with the dispenser in the calculator enclosure. See Figure 16 for reference

6 CONNECTION TO MID APPROVED FUEL DISPENSERS AND SELF-SERVICE DEVICE SYSTEMS

6.1 Self-Service Devices

The dispensers in this approval may be connected to any compatible MID POS having an EC Parts Certificate.

6.2 Fuel Dispensers

The dispensers may be used in a system which also includes dispenser models described in this certificate but which have been conformity assessed in accordance with The Measuring Instruments (Liquid Fuel and Lubricants) Regulations 2006 (SI 2006 No 1266) which implement the Measuring Instruments Directive (2004/22/EC). These dispensers may be as described in the following MID EC type-examination certificate:

UK/0126/0118

7 ILLUSTRATIONS

Figure 1 to 6	Typical arrangements with older style head assemblies
Figure 7 to 14	Typical arrangements with current head assembly from 2000
Figure 15	Nameplate – typical arrangements,
Figure 16	Sealing - Typical Sealing Arrangement

Figure 1 to 6 Typical arrangements with older style head assemblies

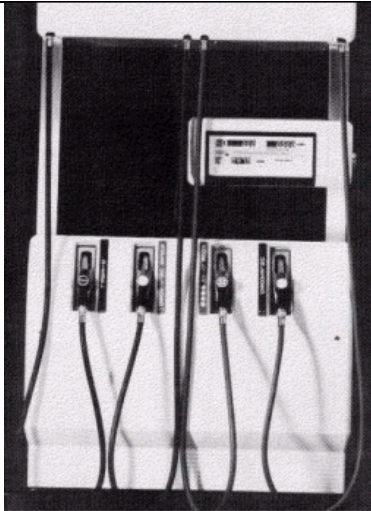


Figure 1

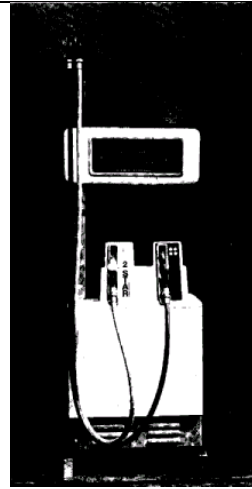


Figure 2

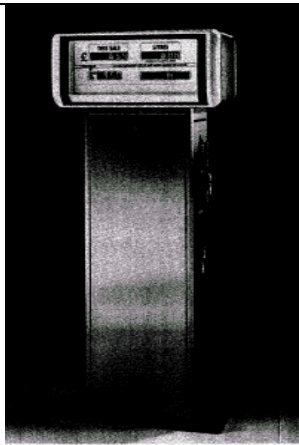


Figure 3



Figure 4



Figure 5

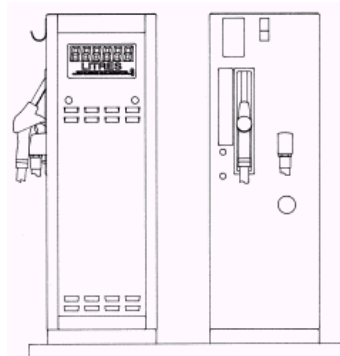


Figure 6

Figure 7 – 14 Typical arrangements with current head assembly from 2000



Figure 7

Series C Retail Mono 45 to 90 LPM



Figure 8

Series C Retail Twin 45 to 90 LPM



Figure 9

Series C Commercial Mono 45 to 90 LPM



Figure 10

Series C Commercial Twin 45 to 90 LPM



Figure 11
Series C Single Product Twin



Figure 12
Series C Retail or Commercial 180LPM



Figure 13
Series C Retail or Commercial with hose reel



Figure 14
Series C Commercial Twin Unit
Debowser one side for trade use only



Figure 15 Nameplate – typical arrangements

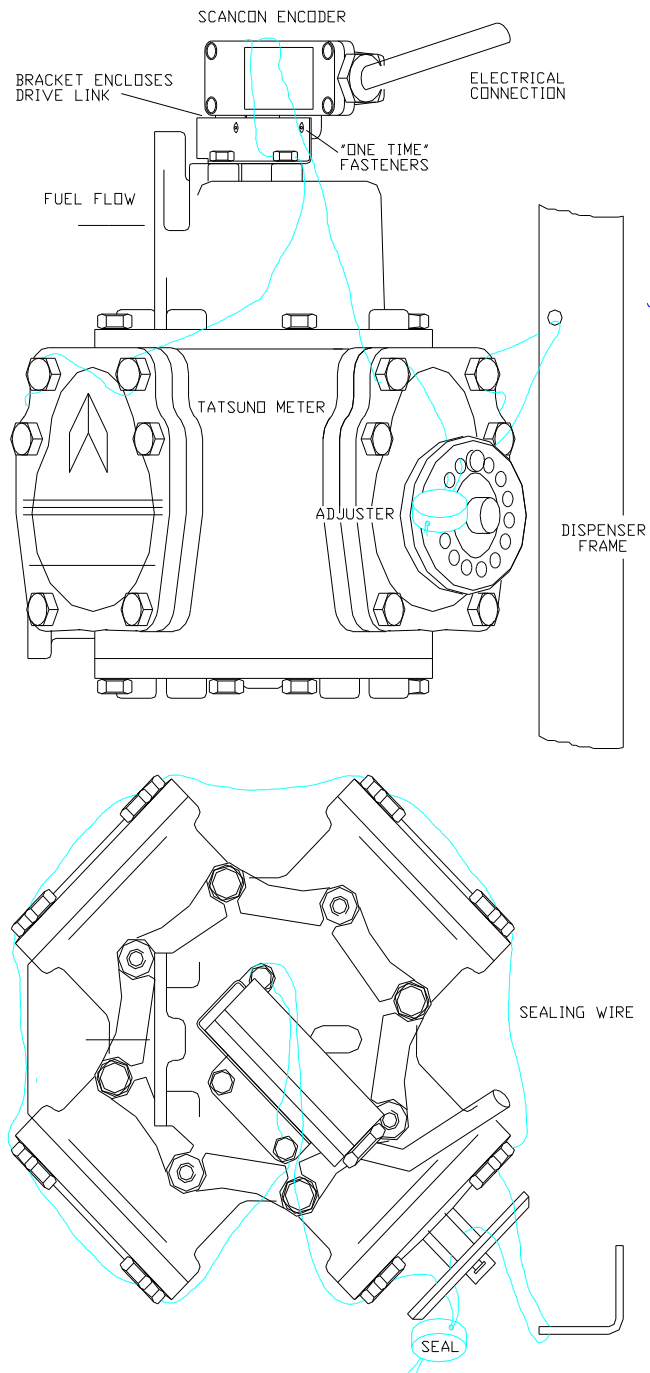


Figure 16 Typical Meter Sealing Arrangement