



[1]

EC-Type Examination Certificate

[2] **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres**

Directive 94 / 9 / EC

[3] EC – Type Examination Certificate Number : **IEP 13 ATEX 0130**

[4] Equipment or protective system : **Electronic Filling Scale DFM xx series**

[5] Manufacturer : **SÖNMEZ Makina Otomotiv Elektronik San. Tic. Ltd. Şti.**

[6] Address : **Kavakpınar Mah. Tandoğan Cad. Zeki Sok. No:4 Pendik İstanbul – TURKEY**

[7] This equipment or protective system and any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] The IEP Uluslar Arası Enerji Petrol Gözetim , Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti. , notified body number 2284 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994 , certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in confidential Report N : IEP - RP.Ex - 10. 474 date 15.04.2013


[9] Compliance with Essential Health and safety requirements has been assured by compliance with ;

EN 13463-1;2009 , EN 60079-5 , EN 60079-0;2009

[10] If the sign " X " is placed after the certificate number , it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

[11] This EC-Type Examination Certificate relates only to the design examination and testing of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

[12] The marking of the equipment or protective system shall include following :

 **II 2G IIA T4**

Responsible person :

Nurettin Terzioglu
Head of certification body



Date of issue : 22.04.2013





[13] Schedule

[14] Certificate Nr : **IEP 13 ATEX 0130**

[15] Description of Equipment Protective System

Filling machines are used for filling LPG cylinders cylindrical. Electronic Filling Scale DFM xx series are used to fill the required capacity gas which in from gas pump 13-17 bar to the cylinder .

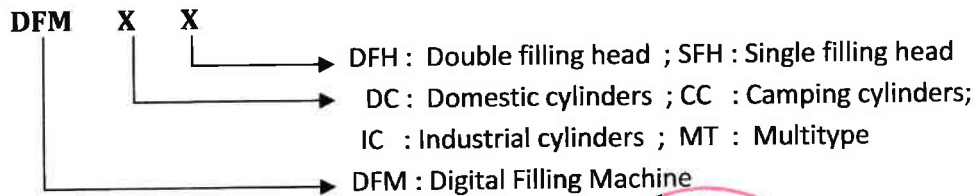
Electronic Filling Scale DFM xx series series are designed on the platforms in cylinder filling plant on carousel system , on chasis , fixed to the ground in straight ground.
Electronic Filling Scale system is used in different filling head apparatus.

The Ex-proved electrical and non-electrical equipment and apparatus of Electronic Cylinder Filling and their location in defined hazardous areas are specified in "List of the Basic Sub-assemblies and Elements of the Electronic Filling Scale DFM xx series – Component list of mechanical and electrical equipment list date 15.01.2013

[16] Description of Equipment or Protective System ; DFM xx series

Specifications	Model, DFM /DC	Model DFM / CC	Model DFM / IC	Model DFM / MT
Filling Capacity Min/Max Kg	10 / 20 kg	1 / 10 kg	20 / 50 kg	1 / 50 kg
Weighing Capacity	1 - 300 kg			
Ambient Temperature	0°C ; + 40°C			
Weight Sensivity	50 gr			
Filling Sensivity	100 gr			
Power Supply	230V AC , 1 A			
Air Pressure	5 - 8 bar			
Gas Pressure	13 - 17 bar			

Electronic Filling Scale DFM xx series code system



Responsible person ;

Nurettin Terzioglu

Head of certification body



IEP Uluslar Arası Enerji Petrol Gözetim , Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti.
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Number of Pages : 2 / 3

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IEP ENERGY PETROLEUM INSTITUTE



[17] Report Nr : IEP - RP.Ex - 10.474

Report Date : 15.04.2013

[18] Special conditions for safe use : The installation and the operation of the Electronic Filling Scale DFM xx series have to confirm to the relevant national regulations.

[19] Essential Health and Safety Requirements :

19 .1 Electronic Filling Scale DFM xx series are included in standards , which are mentioned in clause (9) of this certificate. The products was approved in accordance with above mentioned standards and manufacturer's instruction.

19 .2 At the installation and the operation of the Electronic Filling Scale DFM xx series have to be observed manufacturer's user manuel date 15.01.2013.

[20] List of documentation ;

Drawing Nr ;	Drawing Name ;	Date ;
DFM 01 0001.00	Exploded drawing	15.01.2013
DFM 01 0002.00	Zone classification	18.01.2013
DFM 01 0003.00	General view	21.01.2013
DFM 01 0004 .00	General drawings	19.01.2013
DFM 01 0004.01	Upper chassis	19.01.2013
DFM 01 0004.02	Fixing plate and Bottle head	19.01.2013
DFM 01 0004.03	Lower chasiss and cylinders platform	19.01.2013
DFM 01 0005.00	Front and side view	19.01.2013
DFM 01 0006.00	Carousel installation	22.01.2013
DFM 01 0007.00	Stationary installation	22.01.2013
DFM 01 0008.00	Eart connection	19.01.2013
DFM 01 0009.00	Electrical connection scheme	20.01.2013
DFM 01 0009.01	Terminal box electrical connection	20.01.2013
DFM 01 0010-02	General Electrical connection scheme	20.01.2013
DFM 01 0011.00	Tank connection scheme	19.01.2013
DFM 01 0012.00	Pneumatic control scheme	20.01.2013
DFM 01 0013-00	Gas flow diagram	22.01.2013

For the validity of type certificate , the parts that are used in Electronic Filling Scale DFM series are confirmed in Compenent list of mechanical and electrical equipment list date 15.01.2013

Responsible person ;

Nurettin Terzioglu

Head of certification body



Date of issue : 22.04.2013