



Member State of OIML
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and Northern Ireland

OIML Certificate No
R85/2008-GB1-13.01

OIML CERTIFICATE OF CONFORMITY

Issuing authority: **National Measurement Office**

Person responsible: **Paul Dixon – Product Certification Manager**

Applicant: **Motherwell Tank Gauging
1 St. Michaels Road
Lea Green industrial Estate
St. Helens, Merseyside
WA9 4WZ
United Kingdom**

Manufacturer: **The applicant**

Identification of the certified pattern: **Digital Microwave Tank Gauge**

This certificate attests the conformity of the above-mentioned pattern (represented by the samples identified in the associated test report) with the requirements of the following Recommendation of the International Organisation of Legal Metrology (OIML):

OIML R 85 - Edition 2008(E)

This certificate relates only to the metrological and technical characteristics of the pattern of the instrument concerned, as covered by the relevant OIML International Recommendation.

This certificate does not bestow any form of legal international approval.

Important note: Apart from the mention of the certificates reference number and the name of the OIML Member State in which the certificate was issued, partial quotation of the certificate or of the associated test report is not permitted, though they may be reproduced in full.

Issue Date: 18 October 2013
Reference No: TS18/0001

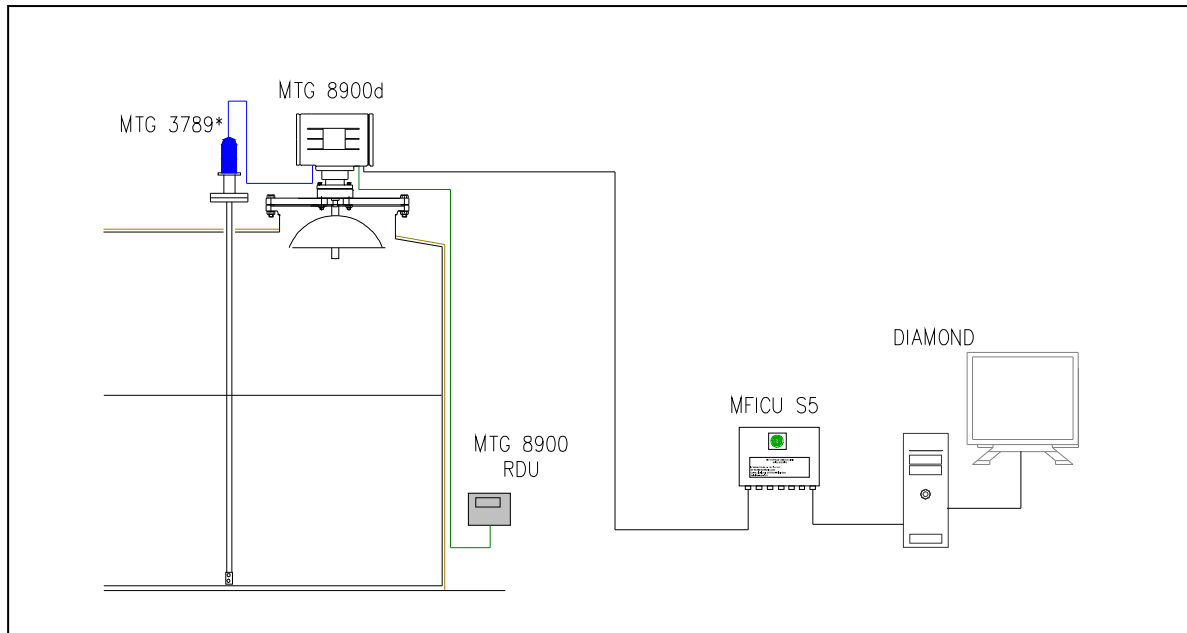
Signatory: P R Dixon

The conformity was established by tests and examinations as described in the associated Evaluation Report P00565 having 13 pages.

Identification and description of the certified type of tank radar

1. MTG 8900d Radar Tank Gauging System

a. Overview



b. Description of tested components

MTG 8900d Radar Gauge

8900d is a radar sensor in X-band (emitting frequency approximately 10GHz) for continuous level measurement.

8900d performance is optimised for the accurate measurement of product level in storage tanks at bulk liquid storage facilities, particularly oil terminals, refineries and distilleries and features a range of antenna sizes for use in free space and still-pipe installations.

MTG MFICU

The Motherwell Field Interface and Communication Unit, is a combined power supply and field communication data concentrator. With interfaces to the tank gauging field devices such as MTG 8900d and MTG Diamond Tank Gauging and inventory management system.

2 Characteristics:

Gauge	Motherwell Tank Gauging 8900d Digital RADAR
	Measuring principle: Digital Microwave
	Exterior protection : Aluminium LM25 or Stainless Steel AISI 316
	Level measurement range: 0.8 m - 27 m
	Level measurement accuracy: ± 1 mm
	Ambient Temperature: - 10 °C to + 55 °C
	Voltage input: 24 VDC from MFICU S5
Power and communications distribution box	MFICU S5
	Ambient Temperature: - 10 °C to + 55 °C
	Voltage input range: 110 V - 15% to 230V +10%
	Voltage output: 24 VDC to 8900d Digital RADAR

Table 1 Characteristics

c. Optional Features – not under metrological control.

MTG DIAMOND

Diamond is the MTG Tank Gauging management software application with setup, inventory, custody transfer functionality, with the facility to set up and configure connected MTG 8900d and other field devices.

MTG 8900d RDU

MTG 8900d Digital Radar Remote Display Unit is designed for use in conjunction with MTG 8900d Radar tank gauge. The unit can be located at tank top, tank base or at remote locations and provides a multi-variable scrolling display of tank contents, temperature, density, volume, flowrate and interface level.

MTG 3789 SERIES TEMPERATURE PROBE

Intrinsically safe, multiple element, high accuracy sensors for temperature measurement in a wide range of applications.

Certificate History

ISSUE NO.	DATE	DESCRIPTION
R85/2008-GB1-13.01	18 October 2013	Type approval first issued
-		No revisions have been issued.