

Physikalisch-Technische Bundesanstalt

Braunschweig and Berlin

EEC type approval-certificate, dated 25.04.1997

1st Supplement

D 97
7.211.16

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Issued to: Daniel Europe Ltd.
2280 AE Rijswijk
The Netherlands

In respect of: Gas Turbine Meter
Model IGTM

The type approval as mentioned above is transferred according to paragraph 27 of the "Eichordnung", with all rights and obligations to:

Daniel Europe Ltd.
2280 AE Rijswijk
The Netherlands

The type approval in favor of:

Daniel Messtechnik GmbH Babelsberg
14482 Potsdam

with the approval sign as mentioned above expires with this type approval transfer.

For measurement devices that are provided with the approval sign after the date of approval transfer the name-plate details must be changed according to paragraph 42, part 1 of the "Eichordnung" of 21st Juni 1994 (BGBl. I, S. 1293).

Note and Information on legal remedies available:

Supplements without signature and seal are not valid. Supplements are part of the type approval certificate and may not be reproduced other than in full. Extracts may be taken only with the permission of the Physikalisch-Technische Bundesanstalt.

Objection may be made to this notification within one month of its receipt either in writing or orally recorded, to the Physikalisch-Technische Bundesanstalt at one of the following addresses.

Physikalisch-Technische Bundesanstalt
Bundesallee 100
D-38116 Braunschweig

Abbestraße 2-12
D-10587 Berlin

Fürstenwalder Damm 388
D-12587 Berlin

According to paragraph 26 of the “Eichordnung” of 21st Juni 1994 (BGBl. I, S. 1293) is the EEC type approval for the described type herewith changed as follows.

3 Technical specifications

This parts contains the following new figures

DN Mm	G	Q _{max}	Q _{min} m ³ /h			Md _{max} N.mm			P _{max} bar
			1:20	1:10	1:5				
50	40	65	-	-	13	-	-	-	107
50	65	100	-	10	20	-	-	-	107
80	100	160	-	16	32	-	-	-	107
80	160	250	13	25	50	-	-	-	107
80	250	400	20	40	80	-	-	-	107
100	160	250	13	25	50	-	-	-	107
100	250	400	20	40	80	-	-	-	107
100	400	650	32	65	130	-	-	-	107
150	400	650	32	65	130	-	-	-	107
150	650	1000	50	100	200	-	-	-	107
150	1000	1600	80	160	320	-	-	-	107
200	650	1000	50	100	200	-	-	-	107
200	1000	1600	80	160	320	-	-	-	107
200	1600	2500	130	250	500	-	-	-	107
250	1000	1600	80	160	320	-	-	-	107
250	1600	2500	130	250	500	-	-	-	107
250	2500	4000	200	400	800	-	-	-	107
300	1600	2500	130	250	500	-	-	-	107
300	2500	4000	200	400	800	-	-	-	107
300	4000	6500	320	650	1300	-	-	-	107
400	4000	6500	320	650	1300	-	-	-	107
400	6500	10000	500	1000	2000	-	-	-	107
500	6500	10000	500	1000	2000	-	-	-	107
500	10000	16000	800	1600	3200	-	-	-	107
600	10000	16000	800	1600	3200	-	-	-	107
600	16000	25000	1300	2500	5000	-	-	-	107

4 Approval documentation

4.1 Drawings and descriptions

In addition to the documents as mentioned in the appendix to the type approval the following documents are considered

Drawing No	Issue	Name of the drawing
IZ005Bil.doc	07/01	Slide
ZUL010pj.doc	03/01	Description (1 page)
ZUL030pj.doc	07/01	Technical data
ZUL020-J.doc	01/01	List of applied material
ZUL090-E	07.02.01	Main name-plate
ZUL-100-D	05.04.01	Pulse sensor name-plate
ZUL 141-A	28.06.00	Sealing drawing
ZUL 040-b.xls	01/01	Adjustment gears
ZUL 151-A	28.06.00	Measures, views
ZUL 130-B	01.03.00	Gear wheel scheme
ZUL 120-C	28.06.00	Sensors in index head
ZUL 060-B	28.06.00	Sensor at turbine wheel HF1
ZUL 070-B	28.06.00	Sensor at reference wheel HF2

6 Approval mark

This chapter contains the following new description:

The approval sign and other parameters required for the use of the meter need to be mentioned at the main name-plate.

The meter of this model can be offered for legal calibration by a co-seller under the co-sellers name. In this case indication of the manufacturer should be made by means of the manufacturer logo at the main name-plate.

Co-seller for this meter model is:

vemm tec Messtechnik GmbH, Potsdam

By Order

Braunschweig, 02.10.2001

[signature]

Company reference: 1.33-3271.51-DMB-E16

1.33 - 01064992

H. Krebs

Seal

[Rubber stamp]