



[I-21/55/2026-W&M Section]  
GOVERNMENT OF INDIA/भारत सरकार  
MINISTRY OF CONSUMER AFFAIRS, FOOD AND PUBLIC DISTRIBUTION  
उपभोक्ता मामले, खाद्य एवं सार्वजनिक वितरण मंत्रालय  
DEPARTMENT OF CONSUMER AFFAIRS/ उपभोक्ता मामले विभाग  
LEGAL METROLOGY DIVISION/ विधिक मापविज्ञान प्रभाग

Krishi Bhawan/कृषि भवन, नई दिल्ली

Dated/दिनांक:- 09.03.2026

Certificate of Approval of Model/ मॉडल का अनुमोदन प्रमाणपत्र

Whereas the Central Government, after considering the report submitted to it by prescribed authority, along with the EU-Type examination certificate no. TC11244 revision 2 issued by NMI Certin B.V, Thijssseweg 11 2629 JA Delft, The Netherlands is satisfied that the model described in the said report (see the figure given below) is in conformity with the provisions of the Legal Metrology Act, 2009 (1 of 2010) and the Legal Metrology (Approval of Models) Rules, 2011 and the said model is likely to maintain its accuracy over periods of sustained use and to render accurate service under varied conditions;

Now, therefore, in exercise of the powers conferred by section 22 of the Legal Metrology Act, 2009 (1 of 2010) read with sub-rule (6) of rule 8 and sub-rule (4) of rule 11 of the Legal Metrology (Approval of Models) Rules, 2011, the Central Government hereby issues the certificate of approval of the model of Gas chromatograph type "EnCal3000 proChain GC" with brand name "Elster GmbH" destined for the measurement of calorific value and composition of natural gases (hereafter referred to as the said model) manufactured by M/s Elster GmbH, Steinern Strasse 19-21, 55252 Mainz-Kastel, Germany and imported & marketed in India without any alteration before or after sale by M/s Elster -Instromet India Pvt Ltd, Ground Floor, 1965 Alembic City Avenue, Alembic Campus, Alembic Road, Vadodara-390003 and which is assigned the approval mark IND/09/26/ 98 (the picture of the model is given below as Figure 1);

Figure 1



**Technical Data:**

Type of instrument	Gas chromatograph
Accuracy Class	A
Environment class	M2/E2
Temperature range ambient	-25°C / +55°C
Power supply	24V DC type PSU100s make Siemens
Carrier gas	Helium (>99.999%) with a pressure of 3.25 ± 0.25 Bar



## Essential characteristics

Working range : Natural gas with the following ranges for the different:

Quantity	Unit	Range
Heating value superior	(MJ/m <sup>3</sup> )	28.0-46.5
Wobbe index	(MJ/m <sup>3</sup> )	31.7-54.7
Density	(kg/m <sup>3</sup> )	0.74-1.01

## Software specification:

Software component	version	Checksum
GCM module	V1.05	E188B231
	V1.07	E37C4050
Basic systems	V3.32	D4F4D8A6
	V3.33	BFA649E3
	V3.37	3D798AE3
	V3.39 A	0C0A35B4
AFB-GC	3.08	DBF30D41
	3.09	208362A1
	3.10	C2B7A372
	3.11 B	2E2C7972
Modbus AFB	3.13 B	74DB90B3
	3.13 D	A4DE2C4E
	3.15 A	F4894D7C
	3.16 A	565EFFBB
Post processing AFB	3.10	531BEE89
	3.11	B4A994AE
	3.12	D293A765
	3.12 C	6F443ABF
Archives AFB	3.10 G	0E52B35B
	3.10 I	4C6D1966
	3.10L	4550677A
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CRC total code	V3.33	536CFA89
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	V3.39 A	09AD2F21

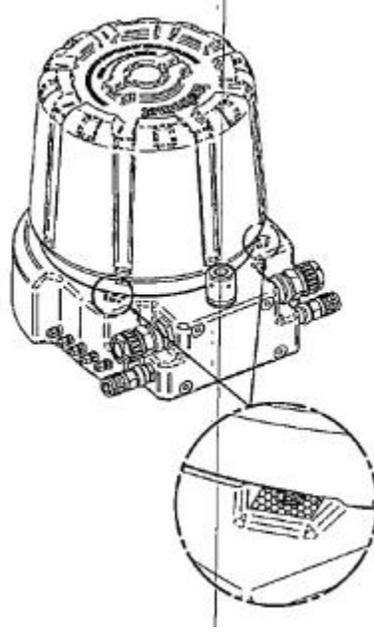


Figure 2

The following items are sealed: the housing cover against opening with a sticker sealing and the nameplate with the markings with a sticker sealing. A typical schematic diagram of sealing provision to prevent the fraudulent practices of the model is given above as Figure 2.

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(Ashutosh Agarwal/आशुतोष अग्रवाल)  
Director (Legal Metrology) to Govt. of India/ निदेशक (विधिक माप विज्ञान) भारत सरकार  
Phone/दूरभाष 01123389489  
Email/ई-मेल: [dirwm-ca@nic.in](mailto:dirwm-ca@nic.in)

Online Application No. 23881