



Online Application No. 24064

[I-21/106/2026-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:- 28.08.2026

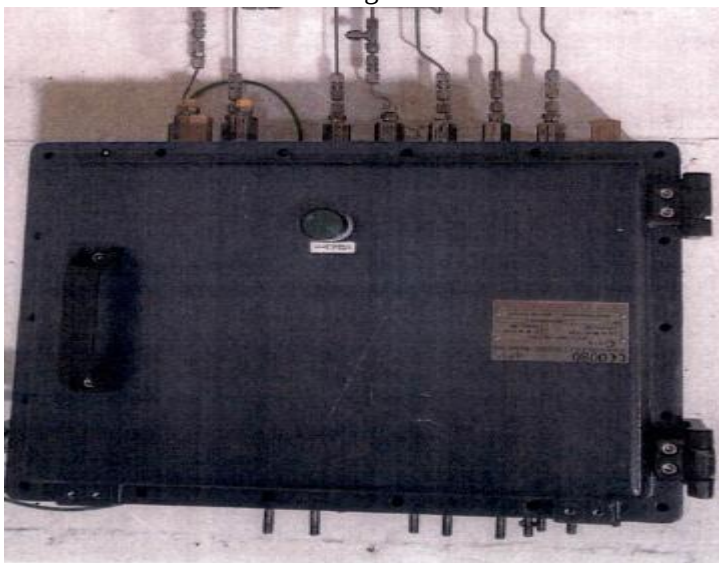
Certificate of Approval of Model/ मॉडल का अनुमोदन प्रमाणपत्र

Whereas the Central Government, after considering the report submitted to it by the prescribed authority along with the Type examination Certificate no.: LNE-37900 revision 6 issued by National Laboratory for Metrology and Testing, LNE, France 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 Chromatograph, Type: "ChromeEx400" of accuracy class: A (hereinafter referred to as the said model), manufactured by M/s Apix Analytics Miniparc Polytec Immeuble Tramontane 60 rue des Berges FRA 38000-Grenoble, France and imported and marketed in India without any alteration before or after sale by M/s Biogas Engineering India Pvt. Ltd. 7th Floor, B-701 to 710, KLJ Square, Tower-B, Village Shikohpur, Tehsil Manesar, Sector 83, Gurugram, Haryana and which is assigned the approval mark IND/09/26/413 (the picture of the model is given below as Figure 1);

Valid Upto: 21.10.2031

Figure 1



Technical Data:

Accuracy class	Class A
Time of analysis	About 100 seconds for configurations without hydrogen About 500 seconds for configurations with hydrogen (presence of the MS5A module)
Carrier gas	1. Configuration with or without "H2": 99.99% pure 2. Configuration with "H2" : "He" (PPU an PDMS column) + "Ar" (MS5A column)
Sample pressure range	Between 0.3 to 1 bar
Carrier gas pressure range	4.8 ± 0.2 bar
Power supply	220 V AC



Output signal covered	Modbus protocol on Ethernet TCP/IP network Serial link RS 232/485
Environmental Class	Class O
Ambient temperature range	-25 °C to +55 °C
Nature of the measured gases	Natural gas and Biomethane , with or without hydrogen

Measuring range of molar titers of gas components:

Detected component	Measuring range of molar titers of gas components:	
	Minimum threshold	Maximum threshold
Nitrogen	0.011	21.8
Carbon dioxide	0.0010	15
Methane	50	100
Ethane	0.00793	20
Propane	0.0010	10
N-butane	0.0010	2
2- Methylpropane(iC4)	0.0010	2
N-Pentane	0.0010	0.5
2-Methylbutane (iC5)	0.0010	0.5
2,2-DiMethylpropane (neoC5)	0.0010	0.5
C6+	0.0010	0.39
Oxygen	1	3
Hydrogen	0.0011	10

Calculation range of the real gas calorific value (on a volumetric basis) at 1.01325 bar

Combustion temperature	Metering temperature	PCS Range	
		kWh/m ³	MJ/m ³
0°C	0°C	7.630 to 15,168	27,468 to 54,605
15°C	15°C	7,218 to 14,345	25,985 to 51,642
20°C	20°C	7,090 to 14,090	25,524 to 50,724
25°C	0°C	7,610 to 15,131	27,396 to 54,472

Analytical modules characteristics:

Module Type	Measured compound
PPU-10 Column 10 m	Nitrogen, Oxygen and other permanent gases Methane Carbon dioxide Ethane
PDMS-15 Column 15 m	Propane Iso-butane n-butane neo-pentane Iso-pentane n-pentane n-hexane Iso-hexane
MS 5A-15 RT Column 15 m	Di-Hydrogen

Software details:

Software	Version	Checksum
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Logiciel PixL Pro	V 2.7.8	7cfbcacc
	V 2.7.14	74191dd3
	V 2.10.10	9f9ca2f4
	V 2.11.9	09872022
	V 2.11.14	9029cf9b
	V 2.11.16	b666f96c

Software	Version	Checksum
PixL Modbus Server	V 3.1.0	1e2f515a
	V 3.1.2	c09757ac
	V 3.4.3	5b186775
	V 3.5.4	83bd6048

Software	Version	Checksum
Aux Modbus Server	V 1.1.0	09938990

Main Board

Software	Version	Checksum
Mainboard firmware	V 2.1.40	6951
	V 2.2.40	12660

Auxillary Board

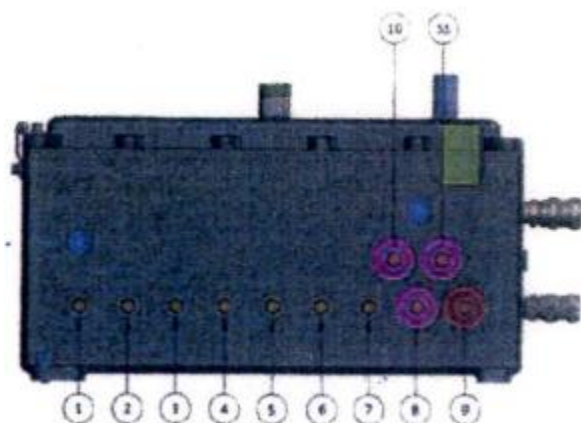
Software	Version	Checksum
Auxillary board firmware	V 3.3.3	25692
	V 3.3.4	16902
	V 3.4.3	21798
	V 3.4.5	64609

Firmware for the PDMSBF-15 and PPU-10 modules:

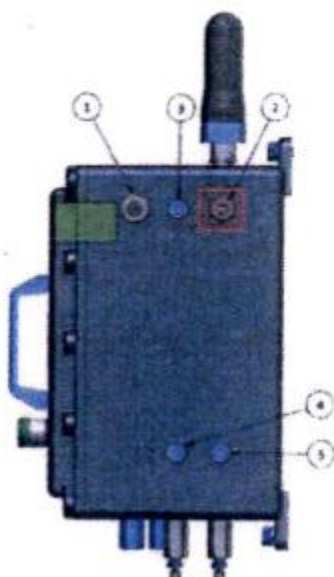
Software	Version	Checksum
Analytical module firmware	V 2.5.5	5.41
	V 2.7.5	31628
	V 3.0.3	32746
	V 3.2.3	64440
	V 3.2.5	30315

Firmware for the MS5A-15 module:

Software	Version	Checksum
Analytical module firmware	V 3.0.3	32746
	V 3.2.3	64440
	V 3.2.5	30315



- bottom side of the enclosure.*
- A seal placed in the green area protects the access to the interior of the enclosure by preventing the cover from being opened.
 - A seal on the sample input port number 9 protects the sample input connection
 - A seal on one of the ports 8, 10 or 11, depending on the configuration, protects the connection to the standard bottle used for adjustment.



- side of the enclosure.*
- A seal placed in the green area protects access to the interior of the enclosure by preventing the cover from being opened.

Figure 2

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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