Online Application No. 30379

[I-21/284/2026-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-: 13.10.2026

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. DE-12-MI002-PTB001, Revision 15 issued by PTB Germany, 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 meter, with brand name "Elster" and Type "RABO oder/ or Rabo oder/ or R.Abo" (herein after referred to as the said model) manufactured by M/s Elster-Honeywell GmbH, Steinern Strasse 19-21, 55252 Mainz Kastel, Germany and imported & marketed in India without any alteration before or after sale by M/s Honeywell Automation India Limited 56 & 57 Hadaspsar Industrial Estate, Pune 411013, Maharashtra and which is assigned the approval mark IND/09/26/ 482 (the picture of the model is given below as Figure 1);

Valid Until: 20.07.2036

Figure 1



Technical Data:

Accuracy class	1.0
Mechanical factor	M1
Electromagnetic factor	Class E2
Gas and ambient temperature	Lower temperature limit: for maintenance-free gas meters: -10 °C for gas meters with oil lubrication: -25 °C Exception: Gas meters with 0.25 $m^3/h \leq Q_{min} \leq 0.4\ m^3/h$ with the lubricating oil: - Molyduval Chemlube 315 -25 °C - Shell Morlina S2 BL 10 -10 °C Upper temperature limit: for all gas meters: +70 °

Indication	Mechanical counter with 8 digits (drums). Gas meters with Vcycl ≤ 0.87 dm³ show two decimal places. All other gas meters show one decimal place.
Software version	V5.425M for M-Bus V5.425I for Namur or SCR+

Measurement Range:

(i) For Gas meter having V_{cycl} = 0.26 dm³

DN Q_{max}	Q_{min} Q_t									Δp_{max} *at* Q_{max}	f_{max} (E10)
mm m³/h	m³/h m³/h									mbar	Hz
	1:200	1:160	1:130	1:100	1:80	1:65	1:50	1:30	1:20		
25 16						0.25 1.6	0.32 1.6	0.5 3.2	0.8 3.2	1.5	0.45
25 25	-	-	-	0.25 2.5	0.32 2.5	0.4 2.5	0.5 2.5	0.8 5	1.25 5	3.8	0.7
25 40	-	0.25 4	0.32 4	0.4 4	0.5 4	0.65 4	0.8 4	1.3 8	2 8	10	1.1
32 16	-	-	-	-	-	0.25 1.6	0.32 1.6	0.5 3.2	0.8 3.2	0.7	0.45
32 25	-	-	-	0.25 2.5	0.32 2.5	0.4 2.5	0.5 2.5	0.8 5	1.25 5	1.8	0.7
32 40	-	0.25 4	0.32 4	0.4 4	0.5 4	0.65 4	0.8 4	1.3 8	2 8	4.6	1.1
32 65	0.32 6.5	0.4 6.5	0.5 6.5	0.6 6.5	0.8 6.5	1 6.5	1.3 6.5	2 13	3.25 13	10	1.8
40 16	-	-	-	-	-	0.25 1.6	0.32 1.6	0.5 3.2	0.8 3.2	0.6	0.45
40 25	-	-	-	0.25 2.5	0.32 2.5	0.4 2.5	0.5 2.5	0.8 5	1.25 5	1.8	0.7
40 40	-	0.25 4	0.32 4	0.4 4	0.5 4	0.65 4	0.8 4	1.3 8	2 8	4	1.1
40 65	0.32 6.5	0.4 6.5	0.5 6.5	0.6 6.5	0.8 6.5	1 6.5	1.3 6.5	2 13	3.25 13	8.4	1.8
50 16						0.25 1.6	0.32 1.6	0.5 3.2	0.8 3.2	0.6	0.45
50 25	-	-	-	0.25 2.5	0.32 2.5	0.4 2.5	0.5 2.5	0.8 5	1.25 5	1.8	0.7
50 40	-	0.25 4	0.32 4	0.4 4	0.5 4	0.6 4	0.8 4	1.3 8	2 8	4	1.1
50 65	0.32 0.25	0.4 6.5	0.5 6.5	0.65 6.5	0.8 6.5	1 6.5	1.3 6.5	2 13	3 13	8.4	1.8

(ii) For Gas meter having V_{cycl} = 0.87 dm³

DN Q_{max}	Q_{min} Q_t *from year of manufacture 2017*	Δp_{max} *at* Q_{max}	f_{max} (E10)
mm m³/h	m³/h m³/h	mbar	Hz

	1:200	1:160	1:130	1:100	1:80	1:65	1:50	1:30	1:20		
32 25	-	-	-	0.25 2.5	0.32 2.5	0.4 2.5	0.5 2.5	0.8 5	1.25 5	0.9	0.7
32 40	-	0.25 4	0.32 4	0.4 4	0.5 4	0.65 4	0.8 4	1.3 8	2 8	2.3	1.1
32 65	0.32 6.5	0.4 6.5	0.5 6.5	0.65 6.5	0.8 6.5	1 6.5	1.3 6.5	2 13	3 13	5.9	1.8
32 100	0.5 10	0.65 10	0.8 10	1 10	1.3 10	1.6 10	2 10	3 20	5 20	14.1	2.8
40 25	-	-	-	0.25 2.5	0.32 2.5	0.4 2.5	0.5 2.5	0.8 5	1.25 5	0.4	0.7
40 40	-	0.25 4	0.32 4	0.4 4	0.5 4	0.65 4	0.8 4	1.3 8	2 8	0.9	1.1
40 65	0.32 6.5	0.4 6.5	0.5 6.5	0.65 6.5	0.8 6.5	1 6.5	1.3 6.5	2 13	3 13	2.3	1.8
40 100	0.5 10	0.65 10	0.8 10	1 10	1.3 10	1.6 10	2 10	3 20	5 20	5.4	2.8
50 25	-	-	-	0.25 2.5	0.32 2.5	0.4 2.5	0.5 2.5	0.8 5	1.25 5	0.4	0.7
50 40	-	0.25 4	0.32 4	0.4 4	0.5 4	0.65 4	0.8 4	1.3 8	2 8	0.6	1.1
50 65	0.32 6.5	0.4 6.5	0.5 6.5	0.65 6.5	0.8 6.5	1 6.5	1.3 6.5	2 13	3.2 13	1.3	1.8
50 100	0.5 10	0.65 10	0.8 10	1 10	1.3 10	1.6 10	2 10	3 20	5 20	3.1	2.8

(iii) For Gas meter having V_{cycl} = 1.61 dm^3

(a) Installation length 171 mm

DN Q_{max}	Q_{min} Q_t *from year of manufacture 2017*									Δp_{max} *at* Q_{max}	f_{max} (E10)
mm m^3/h	m^3/h m^3/h									mbar	Hz
	1:200	1:160	1:130	1:100	1:80	1:65	1:50	1:30	1:20		
50 160	0.8 16	1 16	1.3 16	1.6 16	2 16	2.5 16	3 16	5 32	8 32	4.4	0.45
80 160	0.8 16	1 16	1.3 16	1.6 16	2 16	2.5 16	3 16	5 32	8 32	3.2	0.45

(b) Variant G160R (installation length 171 mm)

DN Q_{max}	Q_{min} Q_t									Δp_{max} *at* Q_{max}	f_{max} (E10)
mm m^3/h	m^3/h m^3/h									mbar	Hz
	1:200	1:160	1:130	1:100	1:80	1:65	1:50	1:30	1:20		
50 250	1.3 25	1.6 25	2 25	2.5 25	3 25	4 25	5 25	8 50	12.5 50	11.2	0.7

80 250	1.3 25	1.6 25	2 25	2.5 25	3 25	4 25	5 25	8 50	12.5 50	6.8	0.7

(c) Installation length 150 mm

DN Q_{max}	Q_{min} Q_t *from year of manufacture 2017*									Δp_{max} *at* Q_{max}	f_{max} (E10)
mm m³/h	m³/h m³/h									mbar	Hz
	1:200	1:160	1:130	1:100	1:80	1:65	1:50	1:30	1:20		
32 25	-	-	-	-	-	-	0.5 2.5	0.8 5	1.25 5	0.9	0.07
32 40	-	-	-	-	0.5 4	0.65 4	0.8 4	1.3 8	2 8	2.3	0.11
32 65	-	-	0.5 6.5	0.65 6.5	0.8 6.5	1 6.5	1.3 6.5	2 13	3 13	5.9	0.18
32 100	0.5 10	0.65 10	0.8 10	1 10	1.3 10	1.6 10	2 10	3 20	5 20	14.1	0.28
40 25	-	-	-	-	-	-	0.5 2.5	0.8 5	1.25 5	0.4	0.07
40 40	-	-	-	-	0.5 4	0.6 4	0.8 4	1.3 8	2 8	0.9	0.11
40 65	-	-	0.5 6.5	0.65 6.5	0.8 6.5	1 6.5	1.3 6.5	2 13	3 13	2.1	0.18
40 100	0.5 10	0.65 10	0.8 10	1 10	1.3 10	1.6 10	2 10	3 20	5 20	4.8	0.28
50 25	-	-	-	-	-	-	0.5 2.5	0.8 5	1.25 5	0.2	0.07
50 40	-	-	-	-	0.5 4	0.6 4	0.8 4	1.3 8	2 8	0.4	0.11
50 65	-	-	0.5 6.5	0.65 6.5	0.8 6.5	1 6.5	1.3 6.5	2 13	3.2 13	1.0	0.18
50 100	0.5 10	0.65 10	0.8 10	1 10	1.3 10	1.6 10	2 10	3 20	5 20	2.3	0.28
50 160	0.8 16	1 16	1.3 16	1.6 16	2 16	2.5 16	3 16	5 32	8 32	4.4	0.45

(iv) For Gas meter having V_{cycl} = 2.99 dm³

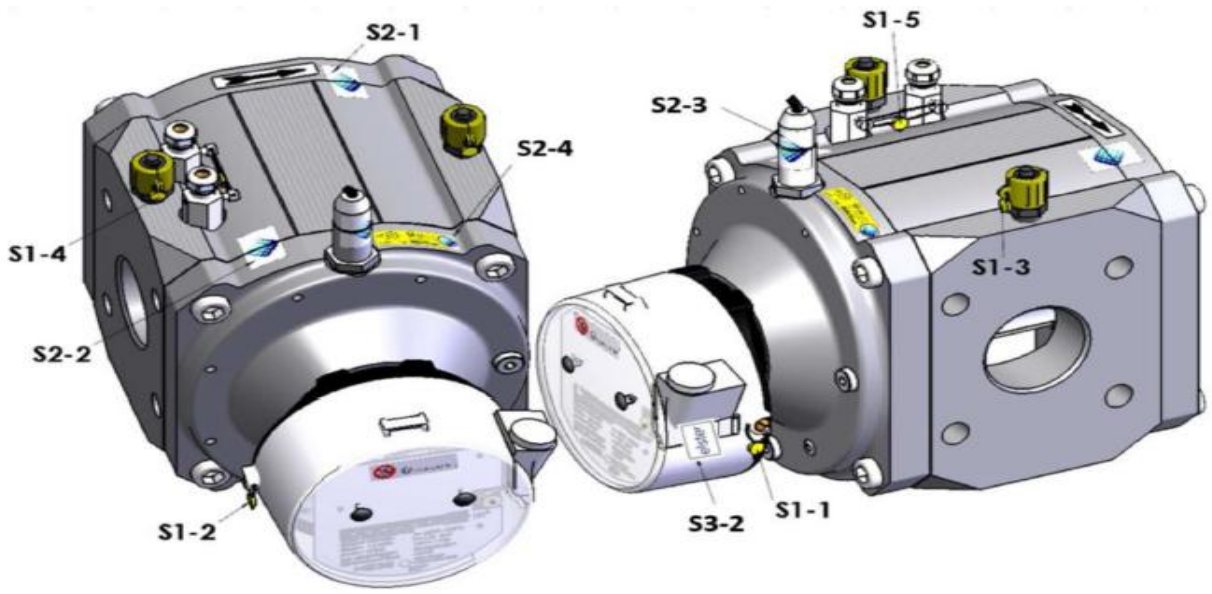
DN Q_{max}	Q_{min} Q_t *from year of manufacture 2017*									Δp_{max} *at* Q_{max}	f_{max} (E10)
mm m³/h	m³/h m³/h									mbar	Hz
	1:200	1:160	1:130	1:100	1:80	1:65	1:50	1:30	1:20		
80 250	1.3 25	1.6 25	2 25	2.5 25	3 25	4 25	5 25	8 50	12.5 50	2.2	0.7
100 250	1.3 25	1.6 25	2 25	2.5 25	3 25	4 25	5 25	8 50	12.5 50	2.0	0.7

(v) For Gas meter having V_{cycl} = 3.7 dm³

DN Q_{max}	Q_{min} Q_t *from year of manufacture 2017*									Δp_{max} *at* Q_{max}	f_{max} (E10)
mm m³/h	m³/h m³/h									mbar	Hz
	1:200	1:160	1:130	1:100	1:80	1:65	1:50	1:30	1:20		
80 400	2 40	2.5 40	3 40	4 40	5 40	6.5 40	8 40	13 80	20 80	4.7	1.1
100 400	2 40	2.5 40	3 40	4 40	5 40	6.5 40	8 40	13 80	20 80	5.2	1.1

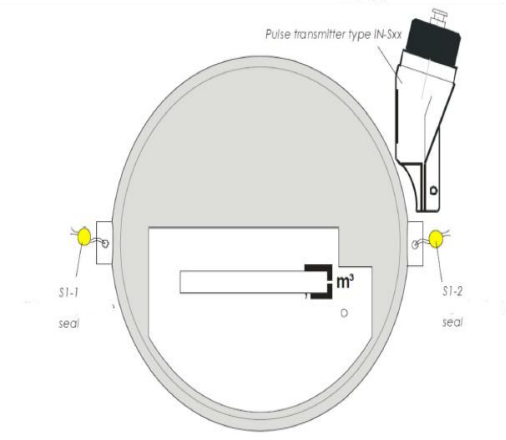
(vi) For Gas meter having V_{cycl} = 4.5 dm³

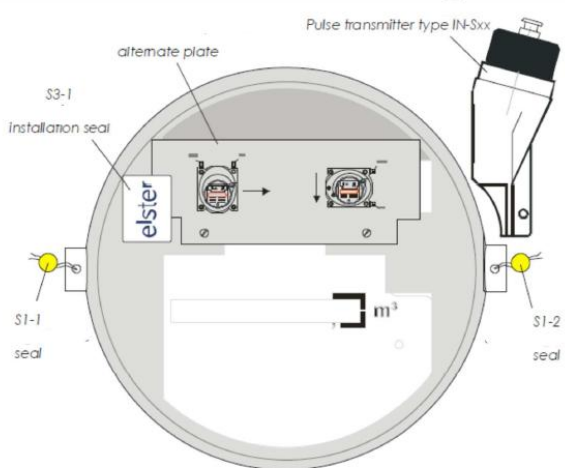
DN Q_{max}	Q_{min} Q_t *from year of manufacture 2017*									Δp_{max} *at* Q_{max}	f_{max} (E10)
mm m³/h	m³/h m³/h									mbar	Hz
	1:200	1:160	1:130	1:100	1:80	1:65	1:50	1:30	1:20		
100 650	3.3 65	4 65	5 65	6.5 65	8 65	10 65	13 65	20 130	32 130	13.2	1.8
150 650	3.3 65	4 65	5 65	6.5 65	8 65	10 65	13 65	20 130	32 130	11.2	1.8

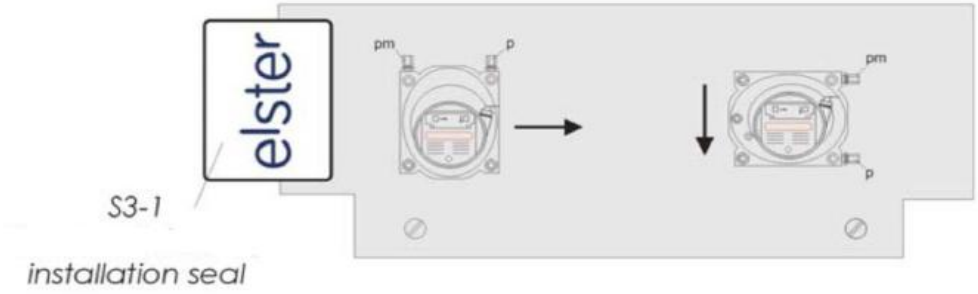


Index heads S1 and S1V

Index head S1D

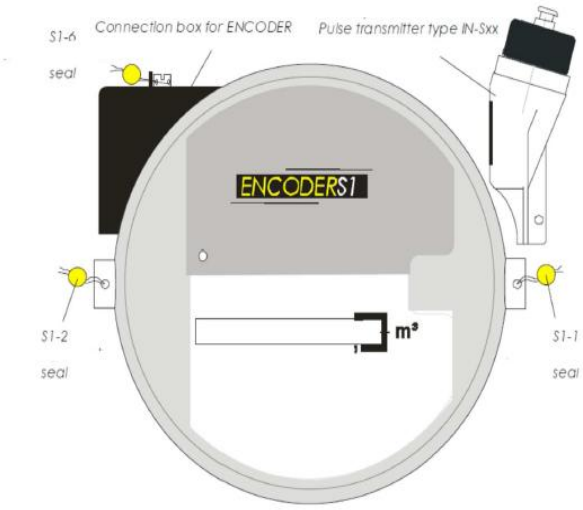


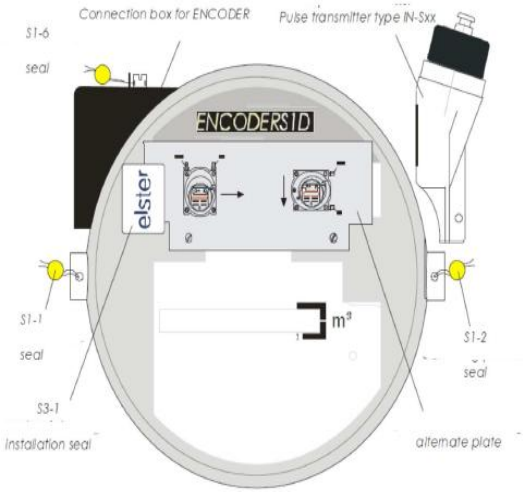




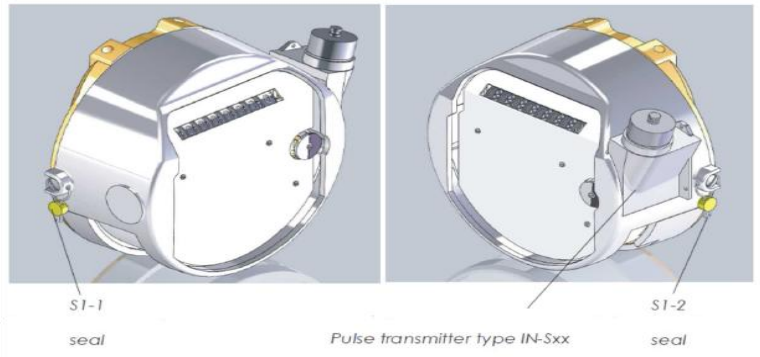
Index head Encoder S1

Absolute Encoder S1D

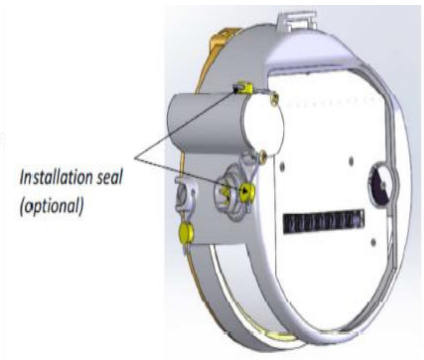




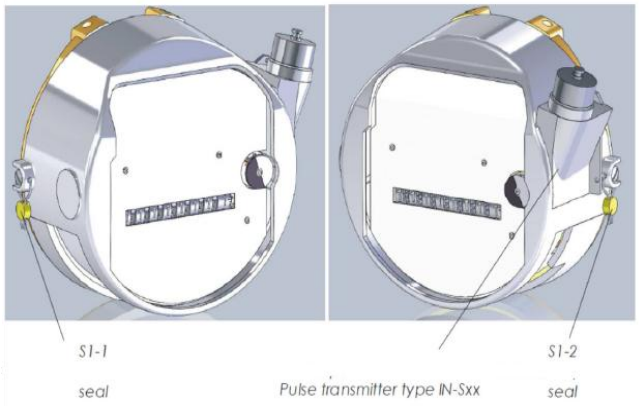
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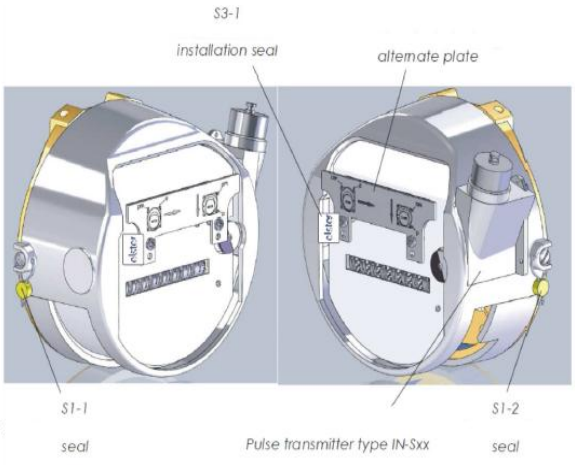


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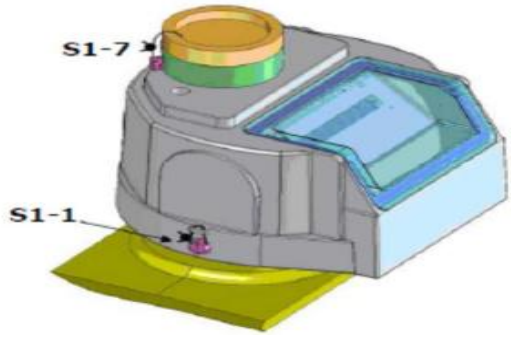


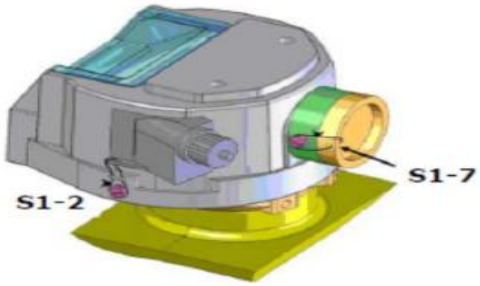
Index head S2D





Index head MI-2





Index heads with micro switch or integrated reed contact



Figure 2

A typical schematic diagram of sealing provision to prevent the fraudulent practices of the model is given above as Figure 2.

[F.No. I-21/284/2026-W&M Section]

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Date: 2026.10.13 16:38:53 +05'30'

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