

Reliable Solutions Trusted in Industrial
Measurement Technologies

enelean
We Measure



PRODUCT CATALOG



en.enelean.com



ABOUT US



Founded in 1976 in Kocaeli, our journey has evolved into a vision that sets standards in industrial measurement technologies today. As Enelsan, we maintain our leading position in the industry with a total of 8,000 m² of production area 2,024 m² of which is indoor by continuously improving our production capacity and technological infrastructure.

We carry out machining, mechanical manufacturing, calibration, and assembly processes in-house within our own structure, supported by our CNC machinery park equipped with advanced technology. With the precision of our R&D center and our TURKAK-accredited laboratory, we are committed to quality at every stage, from design to final testing.

With an annual production capacity exceeding 150,000 units and exports to more than 60 countries, we bring the strength of domestic manufacturing to the global market.



enelsanas



enelsan.endustriyel



enelsan-endustriyel



enelsan-endustriyel



OUR VISION

Our vision is to develop innovative and sustainable products with high global competitiveness as the first and leading manufacturer of industrial measurement instruments in Türkiye. By closely following current technologies, we continuously enhance our product portfolio and aim to offer our customers the advantages of domestic manufacturing quality and fast delivery with maximum efficiency.



OUR MISSION

In order to achieve the goals defined in our vision, as Enelsan Endüstriyel Elektronik A.Ş., we have adopted the following principles as our mission:

Do What Has Not Been Done, Be Innovative and a Pioneer in Your Field

With a deep understanding of measuring fundamental physical parameters in industry, we set out with the philosophy of “doing what has not been done” by focusing on the local manufacturing of measurement equipment.

By expanding our product portfolio every day, we continue to serve our customers with the vision of being a pioneer and innovator in many fields across Türkiye.

Domestic Production, National Value

We aim to ensure that all intermediate equipment and components used in our final products are locally manufactured.

By strengthening our collaborations with domestic manufacturers day by day, we sustain the principle of “National Value,” contributing to the national economy.

Train Competence, Leverage Experience, Transform Potential into Performance

Among all employees within Enelsan A.Ş., individuals are carefully selected based on their competencies, and continuous development is ensured through training programs.

With mutual trust and sincerity, we aim to convert the potential we gain through our employees' efforts and expertise into performance in the most efficient and fastest way possible.

Understand Demand, Act Fast, Deliver Solutions

Our expert sales team analyzes customer needs in the shortest time and provides effective solutions.

With this customer-oriented approach, we continue to be a faster, more agile, and reliable business partner compared to our competitors in the industry.



“ **Monitor the Flow Remotely** ”

65.000
Data Storage
Capacity



Bluetooth | Wi-Fi | LoRaWAN® | 4G

■ Body

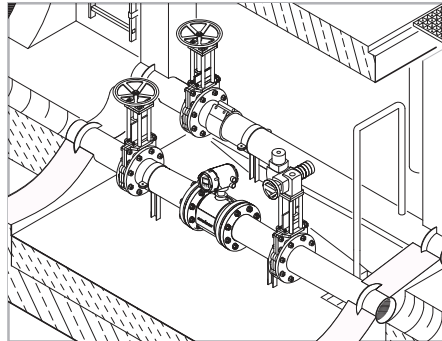
Nominal Sizes	DN15–DN300 Cast Body
Nominal Pressure	PN6, PN10, PN16, PN25, PN40, PN63, PN100, (opt. ANSI)*
Process Temperature	-20 ... +150 °C **
Lining Options	Ebonite, EPDM, Teflon (PTFE)
Electrode Material	316L Stainless Steel (optional Hastelloy C, Tantalum, Titanium, Platinum Rhodium)
Accuracy	±0.2% (optional ISO 17025 accredited)
Protection Class	IP67 (Compact), IP68 (Remote)

(*) Varies depending on pipe diameter
(**) Depends on lining material

■ Transmitter

Mounting	Compact or Remote
Power Supply	220 VAC / 24 VDC / Battery (optional)
Display	Touchscreen LCD, 64×128
Language Options	Turkish, English, German, Spanish
Output Signals	4–20 mA, 0–10 V, Frequency, Pulse, Relay
Data Logging	Optional 65,000-record data logger
Communication	RS485 Modbus, Wi-Fi, Bluetooth, LoRaWAN (optional 4G, GSM, HART, Profibus)
Protection Class	IP67

Easily manage your measurements with remote access, high data storage capacity, and flexible communication options.



ETRANS-M SERIES

ELECTROMAGNETIC FLOWMETER

enellean
We Measure

“

Control the Flow

”

Wide
Diameter
Range from
**DN15 to
DN3000**



HART
COMMUNICATION PROTOCOL

■ Body

Nominal Sizes	DN15–DN300 Cast Body, DN350–DN3000 Carbon Steel Body
Nominal Pressure	PN6, PN10, PN16, PN25, PN40, PN63, PN100 , (opt. ANSI)*
Process Temperature	-20 ... +150 °C **
Lining Options	Ebonite, EPDM, Teflon (PTFE), PFA Lining
Electrode Material	316L Stainless Steel (optional Hastelloy C, Tantalum, Titanium, Platinum Rhodium)
Accuracy	±0.2% (optional ISO 17025 accredited)
Protection Class	IP67 (Compact), IP68 (Remote)

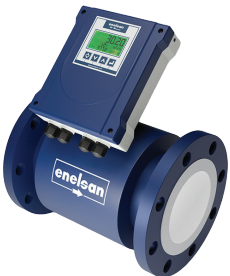
(*) Varies depending on pipe diameter

(**) Depends on lining material

■ Transmitter

Mounting	Compact or Remote
Power Supply	220 VAC / 24 VDC / Battery (optional)
Display	4-button, 3-line, 30-digit LCD
Language Options	Turkish, English
Output Signals	4-20 mA, Frequency, Pulse
Alarms	1 configurable pulse output (24 VDC, 100 mA, 15 kΩ), selectable for empty pipe detection, sensor fault, low flow, or high flow conditions; flow direction can be configured.
Communication	RS485 Modbus (standard), HART (optional)
Protection Class	IP67

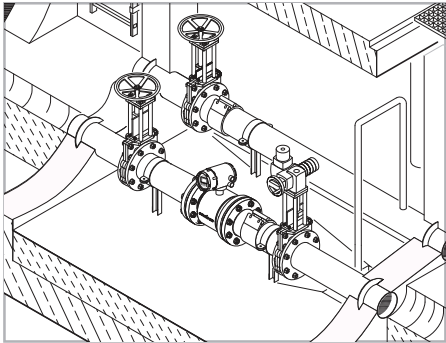
Standard electromagnetic flowmeters provide reliable and accurate flow measurement with a design adaptable to various process conditions.



Square Compact



Remote Electronics



“ **Unlimited Measurement
Power for Restricted Spaces** ”

Wide
Diameter
Range from
**DN50 to
DN3000**



HART
COMMUNICATION PROTOCOL

■ Body

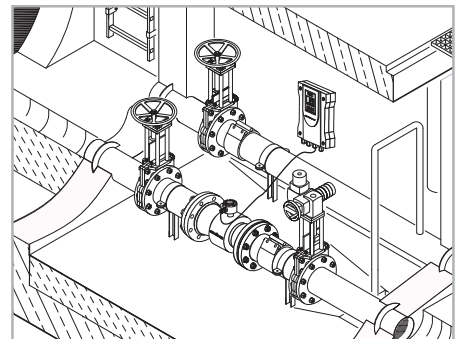
Nominal Sizes	DN50-DN3000 Carbon Steel Body
Nominal Pressure	PN6, PN10, PN16, PN25, PN40, PN63, PN100 , (opt. ANSI)*
Process Temperature	-20 ... +80 °C
Lining Options	Ebonite
Electrode Material	316L Stainless Steel (optional Hastelloy C, Tantalum, Titanium, Platinum Rhodium)
Accuracy	±0.2% (optional ISO 17025 accredited)
Protection Class	IP67 (Compact), IP68 (Remote)

(*) Varies depending on pipe diameter

■ Transmitter

Mounting	Compact or Remote
Power Supply	220 VAC / 24 VDC / Battery (optional)
Display	4-button, 3-line, 30-digit LCD (Turkish-English language options)
Language Options	Turkish, English
Output Signals	4–20 mA, Frequency, Pulse
Alarms	1 configurable passive pulse output (24 VDC, 100 mA, 15 kΩ), selectable for empty pipe detection, sensor fault, low flow, or high flow conditions; flow direction can be configured.
Communication	RS485 Modbus (standard, HART (optional)
Protection Class	IP67

Thanks to its special design, the ETRANS-M0 electromagnetic flowmeter provides high accuracy measurement without requiring straight pipe lengths.



ETRANS-INS SERIES

ELECTROMAGNETIC FLOWMETER

enelean
We Measure

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**No Excavation, No Welding,
Easy Measurement**

”

Extended
Probe from
**DN200 to
DN2000**



HART
COMMUNICATION PROTOCOL

■ Body

Nominal Sizes	DN200–DN1000 (standard), DN1000–DN2000 (extended probe)
Nominal Pressure	PN16
Process Temperature	-20 ... +150 °C
Lining Options	Teflon (PTFE)
Electrode Material	316L Stainless Steel (optional Hastelloy C, Tantalum, Titanium)
Accuracy	<1 m/s: ±1% FS, 1 m/s: ±0.5% FS, <10 m/s: ±0.5% FS
Protection Class	IP67 (Compact), IP68 (Remote)

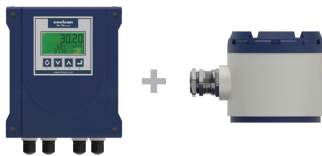
■ Transmitter

Mounting	Compact or Remote
Power Supply	220 VAC / 24 VDC / Battery (optional)
Display	4-button, 3-line, 30-digit LCD
Language Options	Turkish, English
Output Signals	4–20 mA, Frequency, Pulse
Alarms	1 configurable passive pulse output (24 VDC, 100 mA, 15 kΩ), selectable for empty pipe detection, sensor fault, or limit exceedance conditions
Communication	RS485 Modbus (standard), HART (optional)
Protection Class	IP67

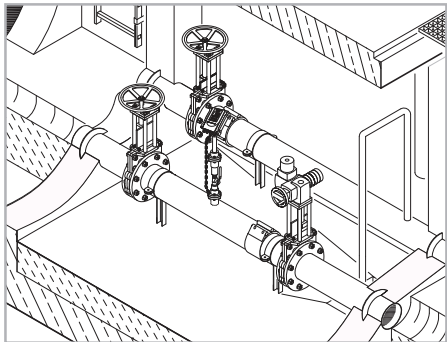
Thanks to its insertion type design, the system can be easily installed on existing pipelines without the need for excavation, welding, or drilling operations.



Square Compact



Remote Electronics



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**Reliable Measurement in
Liquid, Steam, and Gas.**

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Measurement
Range from
**DN15 to
DN300**



■ Body

Nominal Sizes	DN15-DN300
Nominal Pressure	Up to 100 bar (depending on pipe diameter)
Process Temperature	-50 ... +250 °C (Standard), -100 ... +350 °C (High Temperature)
Measurement Range	Steam: 4 ... 40 m/s Gas: 4 ... 40 m/s Liquid: 0.4 ... 4 m/s
Accuracy	Liquids: ±0.5% (with ISO 17025 calibration) Gas & Steam: ±1%
Protection Class	IP67 (Compact), IP68 (Remote)

■ Transmitter

Mounting	Compact or Remote
Power Supply	12...32VDC
Display	LCD, 64×128
Language Options	Turkish, English
Output Signals	Standard Pulse, 4–20 mA
Ambient Temperature	-20 ... +70 °C (Compact Model) -40 ... +85 °C (Remote Model)
Communication	RS485 Modbus (standard), HART (optional)
Protection Class	IP67



HART
COMMUNICATION PROTOCOL

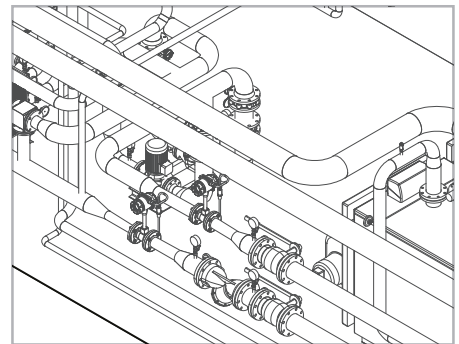
This design, with no moving parts, provides a reliable solution for volumetric and mass flow measurement of liquids, steam, and gases.



Wafer Type



Remote Electronics



ETRANS-TD SERIES

TURBINE FLOWMETER



“ **Reliable Measurement in Liquid and Gas.** ”

Measurement Range from **DN02 to DN300**



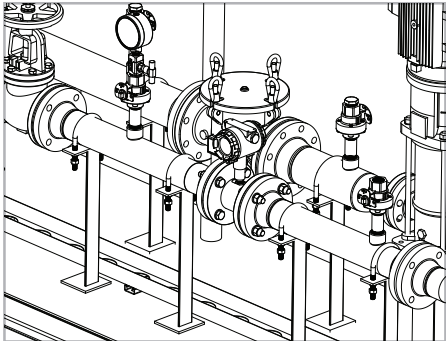
■ Body

Nominal Sizes	DN02–DN50 (Threaded), DN15–DN300 (Flanged)
Nominal Pressure	PN10, PN16, PN25, PN40, PN63
Process Temperature	-10 ... +120 °C
Accuracy	< 1 m/s: ±1.5% 1 m/s, < 10 m/s: ±0.5% (Full Scale)
Protection Class	IP65, IP67 (with display)

■ Transmitter

Mounting	With display or pulse / 4–20 mA output
Power Supply	220 VAC / 24 VDC / Battery (optional)
Display	4-button, 3-line, 30-digit LCD
Language Options	Turkish, English
Output Signals	4–20 mA (passive), RS485 Modbus
Alarms	1 configurable passive pulse output (24 VDC, 100 mA, 15 kΩ), selectable for empty pipe detection, sensor fault, or limit exceedance conditions
Communication	RS485 Modbus
Protection Class	IP67

A reliable solution for volumetric and mass flow measurement of low-viscosity, non-conductive liquids and gases.



Ultrasonic flowmeters operate based on the transit-time difference of sound waves to measure fluid velocity. Their non-intrusive design, with no moving parts, eliminates maintenance requirements and provides a reliable and practical solution with easy installation and a wide measurement range.

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**Maintenance-Free Accurate
Measurement Technology.**

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ETRANS-UD
ULTRASONIC FLOWMETER



Measurement
Range from
DN15 to
DN6000



Technical Specifications

Measurement Range	0,3 ... 15 m/s
Accuracy	±%0,5 (of measured value)
Process Temperature	-40...+110°C (Standard), -40 ... +160 °C (Optional)
Power Supply	24 VDC, 220 VAC
Pipe Diameter	Sensor 1: DN15–DN100 Sensor 2: DN50–DN800 Sensor 3: DN800–DN6000
Outputs	4-20 mA, Pulse, RS485 Modbus
Protection Class	IP67 (Transmitter), IP68 (Sensor)

ETRANS-U
ULTRASONIC FLOWMETER



Measurement
Range from
DN50 to
DN3000



Technical Specifications

Measurement Range	0,3 ... 15 m/s
Accuracy	±%0,5 (of measured value)
Process Temperature	-40...+110°C
Power Supply	24 VDC, 220 VAC
Pipe Diameter	DN50-DN3000
Outputs	4-20 mA, Pulse, RS485 Modbus
Protection Class	IP67

ETRANS-UP
PORTABLE ULTRASONIC FLOWMETER



Measurement
Range from
DN15 to
DN6000

Technical Specifications

Measurement Range	0,3 ... 15 m/s
Accuracy	±%0,5 (of measured value)
Process Temperature	-40...+110°C (Standard) -40...+160°C (Optional)
Power Supply	Rechargeable battery
Pipe Diameter	Sensor 1: DN15–DN100 Sensor 2: DN50–DN800 Sensor 3: DN800–DN6000
Outputs	RS232
Data Logging	Internal memory for 1000 records
Protection Class	IP65

OPEN CHANNEL

FLOWMETERS

Open channel flowmeters are designed to measure flow in non-full pipes such as channels, streams, and rivers. They consist of a flow calculation unit operating with radar, ultrasonic, or velocity sensors. With structures adaptable to different channel types (rectangular, trapezoidal, circular, etc.), they offer a wide range of applications.

“

Non-contact Measurement Technology.

”

■ ETRANS-OCF

OPEN CHANNEL FLOWMETER



■ Technical Specifications

Operating Principle	Radar or ultrasonic level sensor
Channel Types	Flume, weir, rectangular, triangular, trapezoidal
Temperature Resistance	-10 ... +110 °C (Standard), -10 ... +160 °C (Optional)
Power Supply	220 VAC, 50 Hz, 24 VDC (optional solar panel)
Outputs	4-20 mA, RS485 Modbus
Process Temperature	-20...+50°C

■ ETRANS-UD-A

DOPPLER OPEN CHANNEL FLOWMETER

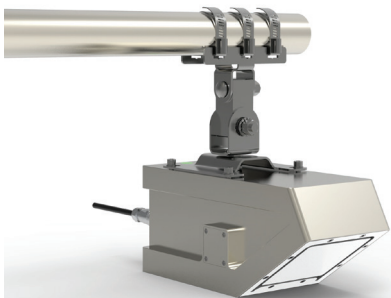


■ Technical Specifications

Operating Principle	Level and velocity measurement with automatic flow calculation
Application Areas	Partially full or full pipes, channels, and rivers
Measurement Range	0-10 m, ± 0.01 m/s ~ ± 5 m/s
Power Supply	7-32 VDC
Accuracy	± 0.5 FS, ± 2 mm/s
Communication	RS485 Modbus
Process Temperature	-20...+80°C
Protection Class	IP68

■ ETRANS-GRDR-600

RADAR OPEN CHANNEL FLOWMETER



■ Technical Specifications

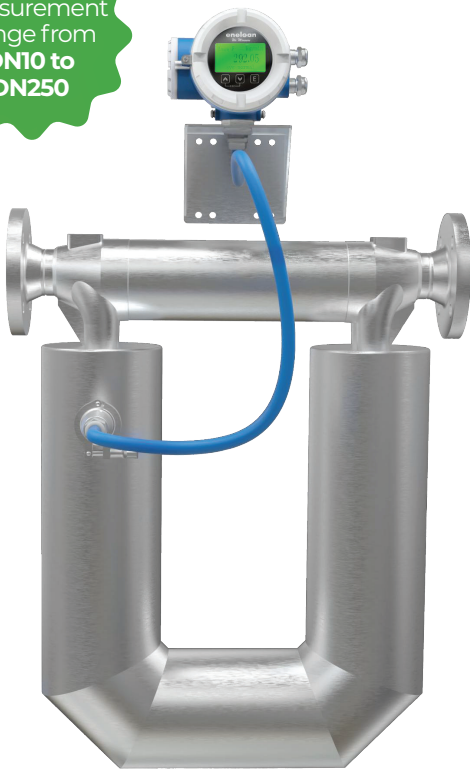
Operating Principle	Radar level and radar velocity sensors
Power Supply	7...32 VDC
Communication	RS485, Bluetooth, (optional RS232, SDI-12, 4G)
Max. Level	25 m
Velocity Range	0,03...20 m/s
Velocity Accuracy	0,01 m/s
Level Accuracy	± 3 mm
Velocity Measurement Angle	12°
Process Temperature	-35...+70°C

“

Mass Flow Measurement
with Maximum Accuracy.

”

Measurement
Range from
DN10 to
DN250



■ Body

Nominal Sizes	DN10-DN250
Nominal Pressure	Up to 100 bar*
Process Temperature	-50 ... +150 °C (Standard)
Temperature Measurement Accuracy	±1°C or ±%0,5 × of reading
Density Measurement Accuracy	±0.001 g/cm ³ (±1 kg/m ³)
Accuracy	±%0,5 (Standard), ±%0,2 ve ±%0,15 (Optional)
Protection Class	IP67
ATEX Classification	Ex d ib IIC T6 Gb; Ex db ia IIC T6 Gb; Ex tb ia IIIC T80°C Db

(*) Varies depending on pipe diameter

■ Transmitter

Mounting	Compact or Remote
Power Supply	24 VDC, 220 VAC
Display	3 digit LCD
Language Options	All languages
Output Signals	4-20 mA, Pulse
Ambient Temperature	-25 ... +55 °C
Communication	RS485 Modbus (standard), HART (optional)
Protection Class	IP67



HART
COMMUNICATION PROTOCOL

With no moving parts, this design provides a reliable solution for volumetric and mass flow measurement of liquids and gases.



CALORIMETER

ELECTROMAGNETIC AND ULTRASONIC

Calorimeters measure the thermal energy consumption in heating and cooling systems. Electromagnetic or ultrasonic flowmeters measure the flow rate, while the control unit calculates energy consumption and efficiency by comparing the temperature difference between supply and return lines. All measurement data can be transmitted via RS232, RS485, or Ethernet and stored in internal memory for reporting purposes.



**Precise Energy Monitoring with
Electromagnetic and Ultrasonic Technology.**

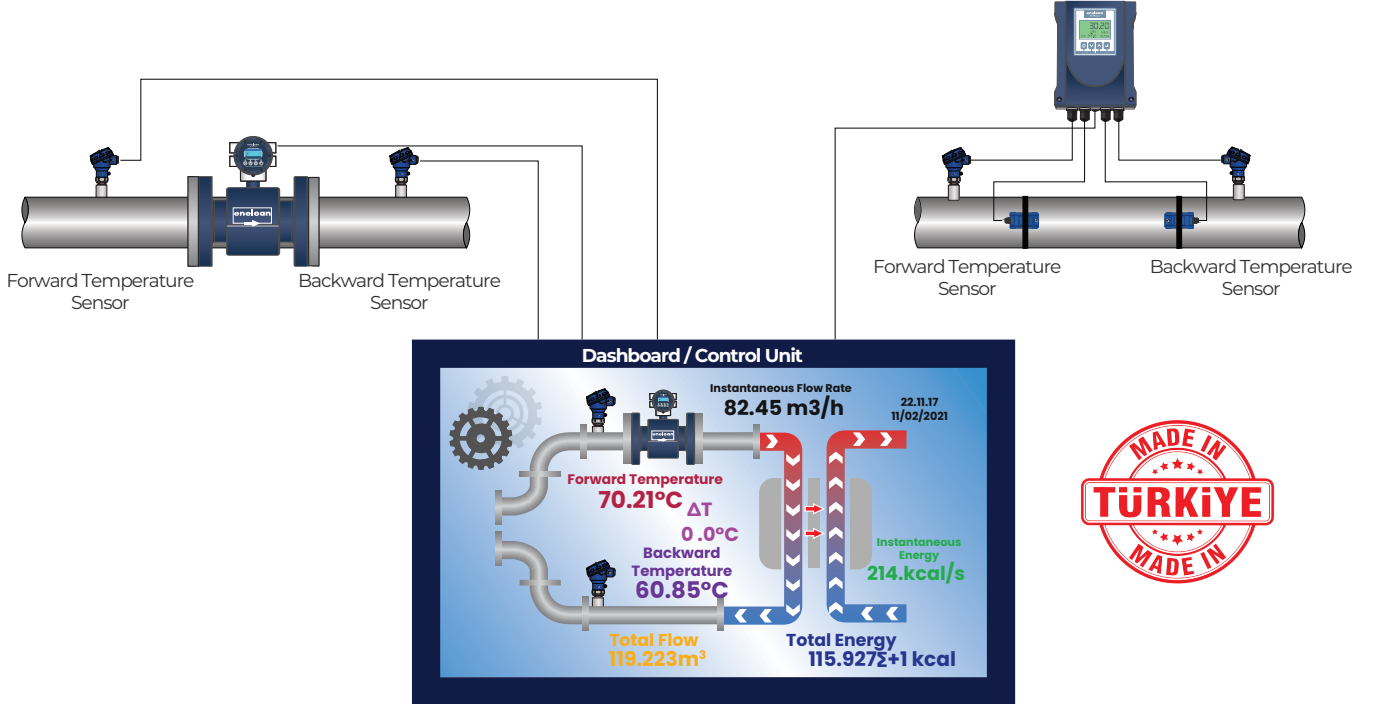


■ Electromagnetic Flowmeter Technical Specifications

Measurement Range	0,3 ... 15 m/s
Accuracy	%0,2 (Optional ISO 17025 calibration)
Process Temperature	-10 ... +180 °C (depending on lining)
Process Pressure	PN6, PN10, PN16, PN25, PN40, PN100
Power Supply	220 VAC / 24 VDC / Battery (optional)
Outputs	4-20 mA, frequency, Pulse, HART (optional), RS485 Modbus (standard)
Protection Class	IP67 (Compact), IP68 (Remote)

■ Ultrasonic Flowmeter Technical Specifications

Measurement Range	0,3 ... 15 m/s
Accuracy	±%0,5 (of measured value)
Process Temperature	-40...+110°C (Standard) -40...+160°C (Optional)
Power Supply	24 VDC, 220 VAC
Pipe Diameter	DN15...DN6000 (depending on sensor type)
Outputs	4-20 mA, Pulse, RS485 Modbus
Protection Class	IP67 (Transmitter), IP68 (Sensor)



■ Temperature Transmitter Technical Specifications

Measurement Range	-50...600 °C
Accuracy	±0.1 °C
Sensor Type	A Class PT100 (2, 3, or 4 wire)
Process Connection	G1/4" ... G1" male thread
Protection Class	IP67
Outputs	Pt100 (optional 4-20 mA)
Options	Thermowell, cooling extension

■ Control Unit Technical Specifications

Inputs	3× Universal inputs (Frequency, Thermocouple, 4-20 mA, 0-10 V)
Dimensions	200 mm × 309 mm × 167 mm (wall-mount)
Measuring Element	A Class PT100 (2, 3, or 4-wire)
Display / Data Logging	USB connection / 4.3" or 7" touchscreen panel
Power Supply	220 VAC 50 Hz
Outputs	1x RS485 MODBUS, Ethernet
Protection Class	IP67

The Enelsan datalogger family is designed as an intelligent data acquisition solution for collecting, monitoring, and transmitting field data. In water, energy, and industrial applications, it records parameters such as pressure, flow, level, and meter data, and transmits them to central systems.

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**Data Monitoring from
Field to Center**

”

■ BILGE PRO DATALOGGER



Bluetooth | Wi-Fi | LoRaWAN | 4G

■ Technical Specifications

Operating Principle	GSM/GPRS Datalogger (connected sensors)
Inputs	6 digital inputs, SD card, Ethernet, Wi-Fi, Bluetooth
Outputs	LoRa / GSM / GPRS, Ethernet, HDMI
Operating Temperature	-20°C ~ +60°C
Reporting	AI-supported reporting
Power Supply	3 Cell 3500 mAh / 6 Cell 7000 mAh / 9 Cell 10500 mAh 12.6V 18650 Li-ion
Display	5" screen (optional 7" or 10.1")
Internal Storage	32GB / 64GB / 128GB

■ ENL-802



■ Technical Specifications

Operating Principle	GSM/GPRS Datalogger (connected sensors)
Inputs	2x Temperature Sensor, 2x 4-20 mA, 0-10 V, Logic, RS485 Modbus
Outputs	GSM/GPRS, RS485 Modbus, 4 x SPDT Relay (250 V, 5A)
Operating Temperature	-40...+85°C
Reading Accuracy	±%0,05 (Full Scale)
Power Supply	10...32 VDC
Display	2x16 LCD display, 7 buttons
Internal Storage	100000

■ ENL-R4000D



■ Technical Specifications

Inputs	Up to 18 analog signal inputs
Outputs	RS485 Modbus, 4x SPDT Relay (250V, 5A)
Operating Temperature	0...+50°C
Dimensions	96x96x100 mm
Power Supply	220 VAC, (optional 24 VDC)
Display	3.5" LCD display
Internal Storage	64 MB, (optional 96 MB, 128 MB)

ETTRANS-P SERIES

PRESSURE TRANSMITTER

enelean
We Measure

Enelsan pressure transmitters are designed with high accuracy for various process conditions. With display and non-display Ex-proof models, they provide solutions for all types of industrial applications. Depending on the process requirements, they are custom-manufactured and deliver stable and reliable measurement performance even in harsh operating environments.



Flexible Options in Pressure Measurement.



ETTRANS-P01

PRESSURE TRANSMITTER



ETTRANS-P02 ve ETTRANS-P03

PRESSURE TRANSMITTER



ETTRANS-P04 ve ETTRANS-P05

PRESSURE TRANSMITTER



Technical Specifications

Pressure Range	-1...+2000 bar
Accuracy	±%0,25 FS, (optional ±0.2%, ±0.1%, or ±0.075% FS)
Process Temperature	-40... +80°C (Standard), -40 ... +250 °C (Optional)
Process Connection	G1/4", G1/2", 1/4" NPT, 1/2" NPT Female, Flush, Flanged
Housing Material	1.4404 (316L) Stainless Steel, 1.4435 (316L), 1.4301 (304) Stainless Steel (optional Hastelloy)
Power Supply	10...36 VDC
Outputs	4...20 mA, 0...10 V, 0,5...4,5 V, HART, RS485 Modbus
Protection Class	IP65

Technical Specifications

Pressure Range	-1...+2000 bar
Accuracy	±%0,25 FS (optional ±0.2% FS)
Process Temperature	-40... +80°C ((Standard), -40 ... +250 °C (Optional)
Process Connection	G1/4", G1/2", 1/4" NPT, 1/2" NPT Female, Flush
Housing Material	1.4404 (316L), 1.4435 (316L), 1.4301 (304) Stainless Steel (optional Hastelloy)
Power Supply	10...36 VDC
Outputs	4...20 mA, PNP/NPN alarm contact (ETTRANS-P03 model)
Protection Class	IP65
Options	Integrated display

Technical Specifications

Pressure Range	-1...+2000 bar
Accuracy	±%0,25 FS, (optional ±0.2%, ±0.1%, or ±0.075% FS)
Process Temperature	-40... +80°C ((Standard), -40 ... +250 °C (Optional)
Process Connection	G1/4", G1/2", 1/4" NPT, 1/2" NPT Female, Flush, Clamp
Housing Material	1.4404 (316L), 1.4435 (316L), 1.4301 (304) Stainless Steel (optional Hastelloy)
Power Supply	10...36 VDC
Outputs	4...20 mA, 0...10 V
Protection Class	IP68 (P04) , IP67 (P05)

The ETRANS-P06 Digital Manometer is a compact, battery-powered device designed for high-accuracy pressure measurement. Thanks to its hermetically sealed piezoresistive sensor structure, condensation-resistant metallic Contite measuring cell, and active temperature compensation, it ensures reliable measurement even in harsh industrial environments.

“**Digital, Battery-Powered,
Backlit Manometer**”

ETRANS-P06 DIGITAL MANOMETER



Technical Specifications

Operating Principle	Piezoresistive
Sensor System	Piezoresistive pressure sensor embedded in stainless steel housing
Pressure Range	-1 bar...700 bar (-29 psi...10150 psi)
Accuracy	0.2% (of full scale, average)
Operating Temperature	-40°C...+85°C (-40°F...+185°F)
Compensated Temp. Range	-0°C ...+ 50°C
Power Supply	3.6 Vdc (Lithium 26500 battery)
Output Type	2x Alarm outputs (NPN, max. 80 VDC, max. 50 mA, short-circuit protected)
Display	5-Digit LC
Housing Material	316L Stainless Steel
Seal Material	Standard NBR 70
Process Connection	G1/4", G1/2", 1/4" NPT, 1/2" NPT
Long-Term Stability	0.05% of URL/year
Protection	Hermetically sealed, resistant to condensation and harsh environmental conditions



ETRANS-P SERIES

PRESSURE TRANSMITTER

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We Measure

Enelsan pressure transmitters are designed with high accuracy for various process conditions. With display and non-display Ex-proof models, they provide solutions for all types of industrial applications. Each product is custom-manufactured according to process requirements and ensures stable, reliable measurement performance in harsh operating environments.

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Flexible Options in Pressure Measurement

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ETRANS-P07 ve ETRANS-P08

PRESSURE TRANSMITTER



Technical Specifications

Pressure Range	-1...+2000 bar
Accuracy	±%0,25 FS, (optional ±0.2%, ±0.1%, or ±0.075% FS)
Process Temperature	-40... +80°C (Standard), -40 ... +250 °C (Optional)
Process Connection	G1/4", G1/2", 1/4" NPT, 1/2" Male/Female, Flush
Housing Material	1.4404 (316L) Stainless Steel / 1.4301 (304) Stainless Steel (optional Hastelloy)
Power Supply	10...36 VDC
Outputs	4...20 mA, 0...10 V, HART (optional RS485 Modbus)
Protection Class	IP65
Options	LCD Display

ETRANS-DP01

DIFFERENTIAL PRESSURE TRANSMITTER



Technical Specifications

Pressure Range	-1...+35 bar
Accuracy	±%0,25 FS, (optional ±0.2%, ±0.1%, or ±0.075% FS)
Process Temperature	-40... +80°C (Standard), -40 ... +250 °C (Optional)
Process Connection	G1/4", G1/2" Male
Housing Material	1.4404 (316L) / 1.4301 (304) Stainless Steel
Power Supply	10...36 VDC
Outputs	4...20 mA, 0...10 V
Protection Class	IP65

ETRANS-DP08

DIFFERENTIAL PRESSURE TRANSMITTER



Technical Specifications

Pressure Range	-1...+400 bar
Accuracy	±%0,25 FS, (optional ±0.2%, ±0.1%, or ±0.075% FS)
Process Temperature	-40... +80°C (Standard), -40 ... +250 °C (Optional)
Process Connection	1/4" NPT Female
Housing Material	1.4404 (316L) Stainless Steel (optional Hastelloy)
Power Supply	10...36 VDC
Outputs	4...20 mA, HART
Protection Class	IP67
ATEX Classification	Zone 0, Zone 1, Zone 2 (II 1G Ex ia IIC T4 Ga)

Enelsan pressure transmitters are designed with high accuracy for various process conditions. With display and non-display Ex-proof models, they provide solutions for all types of industrial applications. Each product is custom-manufactured according to process requirements and ensures stable and reliable measurement performance in harsh environments.

“

Flexible Options in Pressure Measurement

”

ETRANS-PX1

EX-PROOF PRESSURE TRANSMITTER



Technical Specifications

Pressure Range	-1...+2000 bar
Accuracy	±%0,25 FS, (optional ±0.2%, ±0.1%, or ±0.075% FS)
Process Temperature	-40... +80°C (Standard), -40 ... +250 °C (Optional)
Process Connection	G1/4", G1/2", 1/4" NPT, 1/2" NPT Male/Female, Flush, Clamp
Housing Material	1.4404 (316L) Stainless Steel / 1.4301 (304) Stainless Steel (optional Hastelloy)
Power Supply	10...36 VDC
Outputs	4...20 mA, 0...10 V
Protection Class	IP65
ATEX Classification	II 1G Ex ia IIC T4 Ga (Zone 0, Zone 1, Zone 2)

ETRANS-PX5

EX-PROOF PRESSURE TRANSMITTER



Technical Specifications

Pressure Range	-1...+2000 bar
Accuracy	±%0,25 FS, (optional ±0.2%, ±0.1%, or ±0.075% FS)
Process Temperature	-40... +80°C (Standard), -40 ... +250 °C (Optional)
Process Connection	G1/4", G1/2", 1/4" NPT, 1/2" NPT Male/Female, Flush, Clamp
Housing Material	1.4404 (316L) Stainless Steel / 1.4301 (304) Stainless Steel, (optional Hastelloy)
Power Supply	10...36 VDC
Outputs	4...20 mA, 0...10 V
Protection Class	IP67
ATEX Classification	II 1G Ex ia IIC T4 Ga (Zone 0, Zone 1, Zone 2)

ETRANS-PX7 ve ETRANS-PX8

EX-PROOF PRESSURE TRANSMITTER



Technical Specifications

Pressure Range	-1...+2000 bar
Accuracy	±%0,25 FS, (optional ±0.2%, ±0.1%, or ±0.075% FS)
Process Temperature	-40... +80°C (Standard), -40 ... +250 °C (Optional)
Process Connection	G1/4", G1/2", 1/4" NPT, 1/2" NPT Male/Female, Flush
Housing Material	1.4404 (316L) Stainless Steel / 1.4301 (304) Stainless Steel, (optional Hastelloy)
Power Supply	10...36 VDC
Outputs	4...20 mA, 0...10 V, HART (Opsiyonel RS485 Modbus)
Protection Class	IP67
ATEX Classification	II 1/2G Ex db IIC T6...T1 Ga/Gb II 2D Ex tb IIIC T85°C...T200°C Db (Zone 0, Zone 1, Zone 2)
Options	LCD Ekran

ETRANS-T SERIES

TEMPERATURE TRANSMITTER

enelean
We Measure

RTD PT100 temperature sensors operate based on the principle of resistance change of platinum with temperature. The change in electrical resistance of platinum is converted into temperature values through sensitive circuits, ensuring high accuracy and stability over a wide measurement range from -50 °C to +600 °C. With display, non-display, and Ex-proof models, they provide reliable solutions for various process conditions.

“

Maximum Performance over a Wide Measurement Range

”

ETRANS-T01

TEMPERATURE TRANSMITTER



Technical Specifications

Measurement Range	-50...+600°C
Accuracy	RTD Class A or Class B (DIN EN 60751), 4-20 mA output ±0.2% FS
Process Pressure	Max. 25 bar
Sensor Type	PT100
Process Connection	G1/4", G1/2", G1", 1/4" NPT, 1/2" NPT, 1" NPT Male, (Optional Clamp, Flanged)
Output	2, 3, 4 wire PT100 (Optional 4-20 mA)
Protection Class	IP67
Options	Thermowell, cooling extension, insert

ETRANS-T02

TEMPERATURE TRANSMITTER



Technical Specifications

Measurement Range	-50...+600°C
Accuracy	RTD Class A or Class B (DIN EN 60751), 4-20 mA output ±0.2% FS
Process Pressure	Max. 25 bar
Sensor Type	PT100
Process Connection	G1/4", G1/2", G1", 1/4" NPT, 1/2" NPT, 1" NPT Male, (Optional Clamp, Flanged)
Output	4-20 mA (Optional 4-20 mA+HART, RS485 Modbus)
Protection Class	IP67
Options	Thermowell, cooling extension, insert, LCD Display

ETRANS-T05

BAYONET TYPE THERMOCOUPLE



Technical Specifications

Measurement Range	0°C...+600°C, (optional -200°C...+1200°C)
Accuracy	±0.1°C
Process Pressure	Max. 25 bar
Sensor Type	Type J, Type K, PT100, PT1000
Process Connection	11.5mm ID socket, G1/4", G1/2" NPT (custom design)
Output	2 wire thermocouple, 3 wire RTD
Protection Class	IP65
Options	Connector

RTD PT100 temperature sensors operate based on the principle of resistance change of platinum with temperature. The change in electrical resistance of platinum is converted into temperature values through sensitive circuits, ensuring high accuracy and stability over a wide measurement range from -50 °C to +600 °C. With display, non-display, and Ex-proof models, they provide reliable solutions for various process conditions.

“

Maximum Performance over a Wide Measurement Range

”

ETRANS-T06 ve ETRANS-T07

TEMPERATURE TRANSMITTER



ETRANS-T08

TEMPERATURE TRANSMITTER



ACCESSORIES

TRANSMITTER-THERMOWELL



Technical Specifications

Measurement Range	-50...+200°C mA, -50...+450°C RTD
Accuracy	RTD Class A or Class B (DIN EN 60751), 4-20 mA output $\pm 0.2\%$ FS
Process Pressure	Max. 25 bar
Sensor Type	PT100
Process Connection	G1/4", G1/2", G1", 1/4" NPT, 1/2" NPT, 1" NPT Male, (Optional Clamp, Flanged)
Output	2, 3, 4 wire PT100 (Optional 4-20 mA)
Protection Class	IP67
Options	Thermowell, cooling extension, insert

Technical Specifications

Measurement Range	-50...+200°C mA, -50...+450°C RTD
Accuracy	RTD Class A or Class B (DIN EN 60751), 4-20 mA output $\pm 0.2\%$ FS
Process Pressure	Max. 25 bar
Sensor Type	PT100
Process Connection	G1/4", G1/2", G1", 1/4" NPT, 1/2" NPT, 1" NPT Male, (Optional Clamp, Flanged)
Output	2, 3, 4 wire PT100 (Optional 4-20 mA)
Protection Class	IP67
Options	Thermowell, cooling extension, insert

Technical Specifications

Temperature Transmitter	Head Type, DIN Rail Type
Power Supply	12...36 VDC
Input	RTD, Thermocouple
Output	4...20 mA / RS485 MODBUS, 0...10 V (DIN Rail Type only)
Protection Class	IP65 (Head Type), IP54 (DIN Rail Type)
Thermowell Version	Welded, Threaded, Tapered
Process Connection	Threaded, Clamp, DIN/ANSI Flanged
Material	1.4301 (304) Stainless Steel, 1.4404 (316L) Stainless Steel
Options	Custom design according to customer requirements

ETRANS-T SERIES

DIGITAL THERMOMETER

The ETRANS-T09 Digital Thermometer is a compact, battery-powered device designed for high-accuracy temperature measurement. Thanks to its large, backlit digital display, temperature values can be easily read, while its user-friendly interface ensures convenient operation.

“**Digital, Battery-Powered,
Backlit Thermometer**”

ETRANS-T09 DIGITAL THERMOMETER



Technical Specifications

Operating Principle	Resistive
Sensor System	PT100 embedded in stainless steel housing
Temp. Measurement Range	-45 °C ...+500 °C (-49 °F ...+932 °F)
Accuracy	±0.5 % (for PT100)
Operating Temperature	-45 °C ...+500 °C (-49 °F ...+932 °F)
Ambient Temperature	-40°C...+85°C (-40°F...+185°F)
Power Supply	3.6 VDC (Lithium 26500 battery)
Output Type	2x alarm outputs (NPN, max. 80 VDC, max. 50 mA, short-circuit protected)
Display	5 Digit LC
Housing Material	316L Stainless Steel
Seal Material	NBR 70
Process Connection	G1/4", G1/2", 1/4" NPT, 1/2" NPT
Long-Term Stability	0.05% of URL /year
Protection	Hermetically sealed, resistant to condensation and harsh environmental conditions



RTD PT100 temperature sensors operate based on the principle of resistance change of platinum with temperature. The change in electrical resistance of platinum is converted into temperature values through sensitive circuits, ensuring high accuracy and stability over a wide measurement range from -50 °C to +600 °C. With display, non-display, and Ex-proof models, they provide reliable solutions for various process conditions.

“
Maximum Performance over a Wide Measurement Range
”

ETRANS-TX1

EX-PROOF TEMPERATURE TRANSMITTER



Technical Specifications

Measurement Range	-50...+600°C
Accuracy	RTD Class A or Class B (DIN EN 60751), 4-20 mA output $\pm 0.2\%$ FS
Process Pressure	Max. 25 bar
Sensor Type	PT100
Process Connection	G1/4", G1/2", G1", 1/4" NPT, 1/2" NPT, 1" NPT Male, (Optional Clamp, Flanged)
Output	2, 3, 4 wire PT100 (Optional 4-20 mA)
Protection Class	IP67
ATEX Classification	II 1/2 G Ex ia IIC T6 ... T1 Ga/Gb (Zone 0, Zone 1, Zone 2)
Options	Thermowell, cooling extension, insert

ETRANS-TX2

EX-PROOF TEMPERATURE TRANSMITTER



Technical Specifications

Measurement Range	-50...+600°C
Accuracy	RTD Class A or Class B (DIN EN 60751), 4-20 mA output $\pm 0.2\%$ FS
Process Pressure	Max. 25 bar
Sensor Type	PT100
Process Connection	G1/4", G1/2", G1", 1/4" NPT, 1/2" NPT, 1" NPT Male, (Optional Clamp, Flanged)
Output	2, 3, 4 wire PT100 (Optional 4-20 mA)
Protection Class	IP67
ATEX Classification	II 1/2 G Ex db IIC T6...T1 Ga/Gb II 2D Ex tb IIIC T85°C...T200°C Db (Zone 0, Zone 1, Zone 2)
Options	Thermowell, cooling extension, insert

ETTRANS-L SERIES

enelean
We Measure

LEVEL TRANSMITTER

Hydrostatic level sensors measure the static pressure of the liquid column via their submersible design and convert it into level values. The sensor diaphragm, in contact with the liquid, provides accurate level measurement by balancing atmospheric pressure. With easy installation, simple configuration, and high measurement stability, they are widely used especially in water and wastewater applications.

“

Precise Measurement from Depth

”

ETTRANS-L01 ve ETTRANS-LX1

HYDROSTATIC LEVEL TRANSMITTERS (Ø26mm)



Technical Specifications

Measurement Range	0...500 mWC (0...500 meters)
Accuracy	± %0.25 F.S
Process Temperature	-20... +70°C
Sensor Diameter	Ø 26 mm
Sensor Material	1.4404 (316L) Stainless Steel
Cable Material	PE, PUR
Power Supply	10...36 VDC
Outputs	4-20mA (optional HART), 0...10 V
Protection Class	IP68
ATEX Classification	II 1G Ex ia IIC T6...T4 Ga (Zone 0, Zone 1, Zone 2)

ETTRANS-L01S ve ETTRANS-LX1S

HYDROSTATIC LEVEL TRANSMITTERS (Ø19mm)



Technical Specifications

Measurement Range	0...500 mWC (0...500 meters)
Accuracy	± %0.25 F.S
Process Temperature	-20... +60°C
Sensor Diameter	Ø 19 mm
Sensor Material	1.4404 (316L) Stainless Steel
Cable Material	PE, PUR
Power Supply	10...36 VDC
Outputs	4-20mA, 0...10 V
Protection Class	IP68
ATEX Classification	II 1G Ex ia IIC T6...T4 Ga (Zone 0, Zone 1, Zone 2)

ETTRANS-UWA03

CONDUCTIVITY, PRESSURE & TEMPERATURE TRANSMITTER



Technical Specifications

Measurement Range	0...400 mWC (Level) / -20...+85°C (Temperature) / 0...200mS/cm (Conductivity)
Accuracy	±%0.3 F.S (Level) / ±0.1°C (Temperature) / ±%2 F.S (Conductivity)
Process Temperature	-20... +60°C
Sensor Diameter	Ø 26 mm
Sensor Material	1.4404 (316L) Stainless Steel
Cable Material	PE, PUR
Power Supply	6...36 VDC
Outputs	RS485 Modbus
Protection Class	IP68

Radar and ultrasonic level sensors determine the level of liquids and solids with high accuracy using non-contact measurement principles. With high precision, stable performance, and various output signal options, they ensure reliable measurement even in harsh process conditions.

“ **Precise Level Measurement with Radar and Ultrasonic Options** ”

■ **ETRANS-ULT**

ULTRASONIC LEVEL TRANSMITTER



■ **Technical Specifications**

Measurement Range	0,3...5 m, 0,3...10 m, 0,5...15 m, 0,5...20 m, 0,8...50 m
Accuracy	±%0,5 F.S. (Standard), ±0,25% FS (Optional)
Process Temperature	-20...+60°C (Standard) -20...+80°C (Optional)
Process Connection	M48x2, M60x2, M78x2, M108x2, G1", G1½", G2"
Sensor Material	ABS
Power Supply	20...36 VDC
Outputs	4-20mA, RS485, 2 x SPDT Relay (250 V, 10 A)
Protection / ATEX Class	IP65 / Ex db IIC T6 Gb (Optional)
Options	4-button LCD display

■ **ETRANS-8000E**

RADAR LEVEL SENSOR



■ **Technical Specifications**

Measurement Range	10 m, 20 m, 30 m
Accuracy	±2 mm (for liquids)
Process Temperature	-40...+80°C
Process Connection	Threaded or flanged (optional DIN & ANSI)
Process Pressure	Atmospheric pressure
Power Supply	2-wire DC 24V (22V~30V)
Outputs	4-20 mA, Bluetooth (optional RS485 Modbus)
Protection Class	IP67
Beam Angle	±3,5°

■ **ETRANS-RDR800N**

RADAR LEVEL SENSOR



■ **Technical Specifications**

Measurement Range	Max. 30m
Accuracy	±2 mm (for liquids)
Process Temperature	-40...+80°C
Process Connection	Threaded or flanged (DIN & ANSI optional, custom on request)
Housing Material	PP (PolyPropylene)
Power Supply	iki telli DC 24V (22V~30V)
Outputs	4-20mA, RS485 Modbus, Bluetooth
Protection / ATEX Class	IP67 / Exd II CT6Gb
Beam Angle	±3,5°

NOTES

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