



NICO FLOW METERS

MAG20-ELECTROMAGNETIC FLOW METER



Nikaan Sanat Khavarmianeh

2023
Edition 2.1





FLOW MEASUREMENT · PRODUCT CATALOG

MAG20

Electromagnetic Flowmeter

Full-bore electromagnetic flowmeter for conductive liquids — water, wastewater, process, chemical and food & beverage. Seven variants from the standard flanged type to remote, battery/telemetry, wafer, insertion and explosion-proof versions.

7 VARIANTS ONE PLATFORM

MAG20

MAG20-R

MAG20-B

MAG20-IS

MAG20-IF

MAG20-WF

MAG20-EX

DN15...1000

±0.2%

Operating Principle – Faraday's Law

The MAG20 measures the flow of **electrically conductive liquids** using Faraday's law of electromagnetic induction: a conductor moving through a magnetic field induces a voltage.

Fundamental relationship

As the conductive liquid flows through the magnetic field generated by the meter coils, it induces a voltage across the electrodes that is **directly proportional to the average flow velocity**. Because the flow area is known, the volumetric flow is obtained directly – with no moving parts and no obstruction in the bore.

Conductivity requirement

The medium must be conductive – typically $\geq 5 \mu\text{S/cm}$. Water, wastewater, acids, bases, slurries and most aqueous liquids qualify; oils, hydrocarbons, gases, steam and demineralised water do not.

Advantages

- ✓ **No moving parts and no obstruction** – full-bore design, negligible pressure loss.
- ✓ Reading is independent of density, viscosity, pressure and temperature (within ratings).
- ✓ Bidirectional flow, wide turndown and high repeatability.
- ✓ Handles dirty, abrasive, corrosive and slurry conductive liquids.
- ✓ Low maintenance and long service life.

Limitations & Where Not to Use

- Measures **conductive liquids only** ($\geq 5 \mu\text{S/cm}$) – not gases, steam, hydrocarbons/oils or demineralised water.
- The pipe must be **completely full** at the measuring point.
- Requires proper process grounding (grounding rings or electrodes).
- Requires straight upstream/downstream pipe runs for rated accuracy.

Where NOT to use

- Non-conductive media (oils, hydrocarbons, pure/DI water) → use a different flow technology.
- Gas or steam service.
- Partially filled pipes without a full-pipe installation arrangement.

Built-in Functions

- Bidirectional measurement with three totalisers (forward / reverse / net).
- Empty-pipe detection and electrode-coating / exciting alarm.
- High / low flow alarms and self-diagnosis.
- Display in $\text{L/s} \cdot \text{m}^3/\text{h}$, USG, UKG, gal, kg, t and other engineering units.

Construction & Measuring System

The MAG20 consists of a **sensor** (measuring tube with liner, magnetic coils and electrodes) and a **converter** (excitation and signal processing, display and outputs). The liner and electrode are selected to match the medium – this is the heart of a correct selection.

Liner Selection

The liner isolates the medium from the metal tube and must suit the temperature and chemistry:

Liner	Temperature	Size range	Typical use
PTFE	-20...+150 °C	DN15...DN1600	Broad chemical resistance, general purpose
FEP	-20...+120 °C	DN3...DN1800	Good chemical resistance
PFA	-20...+160 °C	DN3...DN800	High temperature, aggressive media
Neoprene	-10...+80 °C	DN40...DN3000	Water and wastewater
Polyurethane	-10...+60 °C	DN40...DN1600	Abrasive slurries
Hard rubber	-10...+80 °C	DN40...DN3000	Water, mild abrasion
Ceramic	-20...+180 °C	DN15...DN200	High temperature, highly abrasive

Electrode Selection

The electrode contacts the medium and must resist its corrosion/abrasion:

Electrode	Typical use
SS 316L	General water and mild media
Hastelloy B / C	Acids and corrosive media
Titanium	Seawater, chlorides
Tantalum	Strongly corrosive acids
Platinum-Iridium	Special / low-conductivity media
SS + Tungsten carbide	Highly abrasive slurries

Selection rule

Match the **liner** to temperature and abrasion, the **electrode** to corrosion, the **flange** to the line rating, and the **converter/power/output** to the site. Confirm conductivity $\geq 5 \mu\text{S/cm}$ and a full pipe before selecting MAG20.

The MAG20 Variant Family

All variants share one measuring platform (Faraday principle, the same liners, electrodes and converters) and differ mainly in **connection, converter and power**:

Model	Type	Construction	Typical duty
MAG20	Standard Flanged Type	Flanged · compact/remote	Water distribution
MAG20-R	Remote Converter Type	Separated converter	High medium temperature
MAG20-B	Battery-Powered Type	Battery + telemetry	District metering (DMA)
MAG20-IS	Insertion Type — Threaded (Hot-Tap)	Insertion probe, threaded	Large water transmission mains
MAG20-IF	Insertion Type — Flanged	Insertion probe, flanged	Large process and water mains
MAG20-WF	Wafer Type	Wafer body	Skid-mounted systems
MAG20-EX	Explosion-Proof Type	Hazardous-area (Ex)	Oil & gas

Quick Selection — Which Variant?

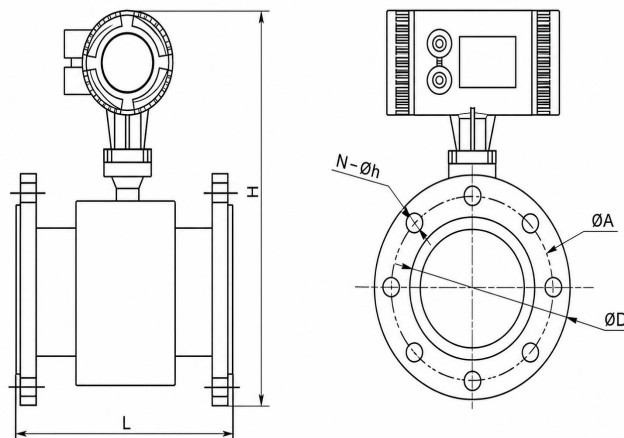
Model	When to choose this variant
MAG20	The full-bore flanged electromagnetic flowmeter for general conductive-liquid metering.
MAG20-R	Sensor and converter separated by cable — for hot, vibrating or hard-to-reach installations.
MAG20-B	Battery-powered with optional telemetry and data logging — for remote sites without mains power.
MAG20-IS	Hot-tap insertion probe for large pipes — economical metering of DN100...DN3000 without cutting the line.
MAG20-IF	Flanged insertion probe — robust large-pipe insertion metering with a flanged mounting assembly.
MAG20-WF	Compact wafer body for DN25...DN200 — space- and cost-saving full-bore metering between flanges.
MAG20-EX	Explosion-proof version for hazardous areas in oil, gas and petrochemical service.

MAG20

Flanged · compact/remote

Standard Flanged Type

The full-bore flanged electromagnetic flowmeter for general conductive-liquid metering.



Application Overview

The standard MAG20 is a full-bore flanged electromagnetic flowmeter for accurate, obstruction-free metering of conductive liquids. It is the general-purpose choice for water, wastewater, process and dosing lines, available with a compact or remote converter.

Distinguishing Construction

Flanged sensor body with the selected liner and electrodes, mains- or DC-powered, with a compact converter mounted on the sensor (or remote — see MAG20-R).

Size

DN15...1000

Accuracy

±0.2/0.5%

Connection

Flanged

Power

AC/DC

Recommended Applications

Water distribution

Wastewater

Process & dosing

Chemical

Food & beverage

Irrigation

Selection — When to Choose / When Not

Choose for standard in-line metering of conductive liquids where flanged connection and mains/DC power are available.

When not to use

- Non-conductive media or gas/steam
- Very large pipes where insertion is more economical → MAG20-IS/IF

Questions the Sales Engineer Should Ask

1. What is the liquid and its conductivity ($\geq 5 \mu\text{S}/\text{cm}$)?
2. Pipe size, flange standard and flow range?

3. Liner/electrode per medium (temperature, corrosion, abrasion)?
4. Required output/comms and accuracy class?

Typical Order Code

Example order code: **MAG20-100-D16-PT-S3-FL-C1-E-A-H-58-2**

Full field-by-field decoding of the 12-part code is given in the “Ordering Code System” chapter.

Installation Notes

- Keep the measuring tube **completely full** at all times (avoid the highest point of the line).
- Provide straight runs of $\geq 5 \times \text{DN}$ upstream and $\geq 3 \times \text{DN}$ downstream (confirm with the installation guide).
- Install with the electrode axis horizontal so gas bubbles do not cover the electrodes.
- Fit grounding rings / grounding electrodes and bond the meter to the process ground.

MAG20-R

Separated converter

Remote Converter Type

Sensor and converter separated by cable – for hot, vibrating or hard-to-reach installations.



Application Overview

The MAG20-R separates the converter from the sensor and connects them by cable, so the electronics can sit in a cooler, accessible or panel location while the sensor stays in-line. Ideal for high medium temperature, vibration or restricted access.

Distinguishing Construction

In-line flanged sensor + wall/pipe-mounted remote converter (round or square) connected by a dedicated signal/ excitation cable within the rated length.

Medium temp

Up to +120°C

Converter

Remote

Connection

Flanged

Power

AC/DC

Recommended Applications

High medium temperature

Vibrating lines

Buried / pit installations

Panel-mounted electronics

Selection – When to Choose / When Not

Choose when the medium temperature is high (up to +120 °C), the sensor location is hot/vibrating, or the display must be relocated.

When not to use

- Standard accessible installations where a compact converter is simpler → MAG20

Questions the Sales Engineer Should Ask

1. What is the medium temperature at the sensor?
2. Distance between sensor and converter (cable length)?
3. Where will the converter be mounted (wall / panel)?

4. Output/comms and accuracy required?

Typical Order Code

Example order code: **MAG20-200-D16-PT-S3-FL-R2-E-D-H-58-2**

Full field-by-field decoding of the 12-part code is given in the “Ordering Code System” chapter.

Installation Notes

- Keep the measuring tube **completely full** at all times (avoid the highest point of the line).
- Provide straight runs of $\geq 5 \times \text{DN}$ upstream and $\geq 3 \times \text{DN}$ downstream (confirm with the installation guide).
- Install with the electrode axis horizontal so gas bubbles do not cover the electrodes.
- Fit grounding rings / grounding electrodes and bond the meter to the process ground.

MAG20-B

Battery + telemetry

Battery-Powered Type

Battery-powered with optional telemetry and data logging — for remote sites without mains power.



Battery-powered with Pulse



Application Overview

The MAG20-B is a low-power, battery-operated flowmeter with an internal data logger and optional GSM/GPRS/4G telemetry. It is designed for remote water-network and district-metering points where no mains power is available, enabling unattended measurement and remote reporting.

Distinguishing Construction

Flanged sensor with a low-power battery converter; internal logger stores flow, totals, alarms and diagnostics with power-failure retention; optional GSM/4G telemetry to a monitoring centre.

Power

Battery

Records

1M+

Telemetry

GSM/4G

Size

DN...

Recommended Applications

District metering (DMA)

Remote water networks

Irrigation off-grid

Leak / consumption monitoring

Selection — When to Choose / When Not

Choose for unattended remote sites without mains power, where battery operation and remote data transmission are required.

When not to use

- High-velocity continuous duty needing mains power and fast response → MAG20
- Where wired power and signal are readily available

Questions the Sales Engineer Should Ask

1. Is mains power available at the site, or is battery required?

2. Is remote transmission (GSM/4G) needed?
3. What logging interval and retention are required?
4. Pipe size and expected flow profile?

Typical Order Code

Example order code: **MAG20-100-D16-PT-S3-FL-BP-B-T-S-68-2**

Full field-by-field decoding of the 12-part code is given in the “Ordering Code System” chapter.

Installation Notes

- Keep the measuring tube **completely full** at all times (avoid the highest point of the line).
- Provide straight runs of $\geq 5 \times \text{DN}$ upstream and $\geq 3 \times \text{DN}$ downstream (confirm with the installation guide).
- Install with the electrode axis horizontal so gas bubbles do not cover the electrodes.
- Fit grounding rings / grounding electrodes and bond the meter to the process ground.

MAG20-IS

Insertion probe, threaded

Insertion Type – Threaded (Hot-Tap)

Hot-tap insertion probe for large pipes – economical metering of DN100...DN3000 without cutting the line.



Compact Insertion Magnetic Flow Meter with Thread Ball Valve



Remote Insertion Magnetic Flow Meter with Thread Ball Valve

Application Overview

The MAG20-IS is an insertion electromagnetic flow probe installed through a threaded hot-tap fitting and ball valve. It measures velocity at a point in large pipes (DN100...DN3000) at a fraction of the cost of a full-bore meter and can be installed or removed under pressure.

Distinguishing Construction

Insertion probe with sensing electrodes at the tip, installed through a G2" ball valve / weld-o-let; depth set to the pipe centreline; threaded hot-tap mounting.

Pipe size

DN100...3000

Install

Hot-tap

Mounting

Threaded

Power

AC/DC

Recommended Applications

Large water transmission mains

Cooling-water lines

Effluent outfalls

Retrofit on existing large pipes

Selection – When to Choose / When Not

Choose for large pipes (DN100...DN3000) where a full-bore meter is too costly or the line cannot be cut, and hot-tap installation is needed.

When not to use

- Small pipes (use full-bore MAG20)
- Where highest accuracy of a full-bore meter is required
- Very low flow / poorly developed profile

Questions the Sales Engineer Should Ask

1. Pipe inside diameter and material?
2. Can the line be hot-tapped, and what is the line pressure?
3. Required accuracy (insertion vs full-bore)?
4. Upstream straight-run available for a good velocity profile?

Typical Order Code

Example order code: **MAG20-300-D16-PT-S3-IS-R2-E-A-S-58-2**

Full field-by-field decoding of the 12-part code is given in the “Ordering Code System” chapter.

Installation Notes

- Keep the measuring tube **completely full** at all times (avoid the highest point of the line).
- Provide straight runs of $\geq 5 \times \text{DN}$ upstream and $\geq 3 \times \text{DN}$ downstream (confirm with the installation guide).
- Install with the electrode axis horizontal so gas bubbles do not cover the electrodes.
- Fit grounding rings / grounding electrodes and bond the meter to the process ground.
- Mount downstream of valves and a few diameters away from pump discharge where possible.
- For the insertion types, observe the hot-tap procedure and insertion depth.

MAG20-IF

Insertion probe, flanged

Insertion Type – Flanged

Flanged insertion probe – robust large-pipe insertion metering with a flanged mounting assembly.



Compact Insertion Magnetic Flow Meter with Flange Ball Valve



Remote Insertion Magnetic Flow Meter with Flange Ball Valve

Application Overview

The MAG20-IF is a flanged-mounting insertion flow probe for large pipes, offering the economy of insertion metering with a robust flanged installation assembly and ball valve for serviceability.

Distinguishing Construction

Insertion probe mounted on a flanged assembly with isolation ball valve; sensing electrodes at the probe tip set to the measuring depth.

Pipe size

DN50+

Mounting

Flanged

Type

Insertion

Power

AC/DC

Recommended Applications

Large process and water mains

Power-plant cooling water

Municipal transmission lines

Retrofit metering

Selection – When to Choose / When Not

Choose for large-pipe insertion metering where a flanged mounting assembly is preferred for robustness and serviceability.

When not to use

- Small pipes (full-bore MAG20)
- Applications demanding full-bore reference accuracy

Questions the Sales Engineer Should Ask

1. Pipe size, material and flange rating of the mounting?
2. Line pressure and isolation requirements?
3. Accuracy expectation for insertion metering?
4. Straight-run available upstream?

Typical Order Code

Example order code: **MAG20-200-D16-PT-S3-IF-R2-E-A-S-58-2**

Full field-by-field decoding of the 12-part code is given in the “Ordering Code System” chapter.

Installation Notes

- Keep the measuring tube **completely full** at all times (avoid the highest point of the line).
- Provide straight runs of $\geq 5 \times \text{DN}$ upstream and $\geq 3 \times \text{DN}$ downstream (confirm with the installation guide).
- Install with the electrode axis horizontal so gas bubbles do not cover the electrodes.
- Fit grounding rings / grounding electrodes and bond the meter to the process ground.
- Mount downstream of valves and a few diameters away from pump discharge where possible.
- For the insertion types, observe the hot-tap procedure and insertion depth.

MAG20-WF

Wafer body

Wafer Type

Compact wafer body for DN25...DN200 — space- and cost-saving full-bore metering between flanges.



Application Overview

The MAG20-WF uses a short wafer-style body clamped between two pipe flanges, saving space, weight and cost for small-to-medium lines (DN25...DN200) while keeping full-bore, obstruction-free measurement.

Distinguishing Construction

Wafer sensor body centred and clamped between mating flanges with tie bolts; compact or remote converter.

Size

DN25...200

Body

Wafer

Converter

Compact

Power

AC/DC

Recommended Applications

Skid-mounted systems

Water & dosing lines

Light industry

OEM packages

Selection — When to Choose / When Not

Choose for small-to-medium lines (DN25...DN200) where space, weight and cost savings matter and mating flanges exist.

When not to use

- Large pipes (flanged MAG20 / insertion types)
- Where a dedicated flanged body is specified

Questions the Sales Engineer Should Ask

1. Pipe size (DN25...DN200) and mating flange standard?
2. Liquid, conductivity and liner/electrode choice?
3. Compact or remote converter?
4. Output/comms and accuracy?

Typical Order Code

Example order code: **MAG20-080-D16-PT-S3-WF-C1-E-A-S-58-2**

Full field-by-field decoding of the 12-part code is given in the “Ordering Code System” chapter.

Installation Notes

- Keep the measuring tube **completely full** at all times (avoid the highest point of the line).
- Provide straight runs of $\geq 5 \times \text{DN}$ upstream and $\geq 3 \times \text{DN}$ downstream (confirm with the installation guide).
- Install with the electrode axis horizontal so gas bubbles do not cover the electrodes.
- Fit grounding rings / grounding electrodes and bond the meter to the process ground.

MAG20-EX

Hazardous-area (Ex)

Explosion-Proof Type **Ex**

Explosion-proof version for hazardous areas in oil, gas and petrochemical service.



Application Overview

The MAG20-EX is the explosion-proof version for installation in hazardous (flammable) areas of oil, gas and petrochemical plants. It combines the standard measuring performance with a certified Ex enclosure and wiring (ATEX certification pending).

Distinguishing Construction

Flanged sensor and converter in a certified explosion-proof enclosure with appropriate cable entries and grounding; compact or remote arrangement.

Protection

Ex

Area

Hazardous

Connection

Flanged

Power

AC/DC

Recommended Applications

Oil & gas

Petrochemical

Refinery process water/effluent

Hazardous-area dosing

Selection – When to Choose / When Not

Choose for conductive-liquid metering inside a classified hazardous area requiring an explosion-proof instrument.

When not to use

- Non-hazardous areas (standard MAG20 is more economical)
- Non-conductive hydrocarbons (mag technology does not apply)

Questions the Sales Engineer Should Ask

1. What is the area classification (zone / gas group / temperature class)?
2. Conductive aqueous medium confirmed ($\geq 5 \mu\text{S/cm}$)?
3. Compact or remote converter, and cable-entry requirements?

4. Output/comms and accuracy required?

Typical Order Code

Example order code: **MAG20-100-D16-PT-S3-FL-C1-E-D-H-57-3**

Full field-by-field decoding of the 12-part code is given in the “Ordering Code System” chapter.

Installation Notes

- Keep the measuring tube **completely full** at all times (avoid the highest point of the line).
- Provide straight runs of $\geq 5 \times \text{DN}$ upstream and $\geq 3 \times \text{DN}$ downstream (confirm with the installation guide).
- Install with the electrode axis horizontal so gas bubbles do not cover the electrodes.
- Fit grounding rings / grounding electrodes and bond the meter to the process ground.

Common Technical Specifications

The following specifications apply across the MAG20 platform; connection, converter and power vary by variant.

MAG20 – Technical Data	
Measuring principle	Faraday's law of electromagnetic induction
Conductivity requirement	$\geq 5 \mu\text{S/cm}$
Nominal size	DN15...DN1000 standard (DN1200...DN3000 on request)
Accuracy	$\pm 0.5\%$ standard, $\pm 0.2\%$ optional
Repeatability	$\leq 0.17\%$
Flow velocity	0.1...15 m/s (recommended 0.5...15 m/s)
Ambient temperature	-20...+60 °C
Medium temperature	compact -20...+80 °C / remote -20...+120 °C
Liner	PTFE, FEP, PFA, Neoprene, Polyurethane, Hard rubber, Ceramic
Electrode	SS316L, Hastelloy B/C, Titanium, Tantalum, Pt-Ir, SS+WC
Power supply	85...265 V AC / 20...36 V DC / 3.6 V lithium battery / 9...36 V DC solar
Power consumption	< 20 W
Output	4–20 mA (0...750 Ω), pulse 1...5000 Hz, 2 × OCT alarm relays
Communication	RS-485 Modbus RTU standard; HART / Profibus / GPRS optional
Display	LCD 128×128, 3-line, 4-button, English
Ingress protection	transmitter IP67 / sensor IP68 (NICO standard)
Materials	tube SS304; housing CS standard, SS304/SS316 optional
Flanges	DIN PN10/16/25/40, ANSI 150/300/600#, JIS 10K/20K/30K

Specifications are indicative and subject to change without notice; confirm exact values against the official datasheet before order. Accuracy values refer to reference conditions.

Ordering Code System

The MAG20 order code is a 12-part system: **MAG20** - [SIZE] - [FLANGE] - [LINER] - [ELECTRODE] - [CONNECTION] - [CONVERTER] - [POWER] - [OUTPUT] - [ACCURACY] - [PROTECTION] - [MATERIAL]

Example order code: **MAG20-100-D16-PT-S3-FL-C1-E-A-S-58-2**

[SIZE] Nominal size	
Ø15	DN15
Ø50	DN50
100	DN100
200	DN200
...	DN15...DN1000
SP	Special

[FLANGE] Flange	
D10	DIN PN10
D16	DIN PN16
D25	DIN PN25
D40	DIN PN40
A15	ANSI 150#
A30	ANSI 300#
A60	ANSI 600#
J10	JIS 10K
J20	JIS 20K
J30	JIS 30K

[LINER] Liner	
PT	PTFE
FP	FEP
PF	PFA
NR	Neoprene
PU	Polyurethane
HR	Hard rubber
CE	Ceramic

[ELECTRODE] Electrode	
S3	SS 316L
HB	Hastelloy B
HC	Hastelloy C
TI	Titanium
TA	Tantalum
PI	Pt-Iridium
TC	SS + WC

[CONNECTION] Connection	
FL	Flange (standard)
WF	Wafer (DN25...200)
IS	Insertion, threaded
IF	Insertion, flanged
TH	Threaded

[CONVERTER] Converter	
C1	Compact, round
C2	Compact, square
R1	Remote, round
R2	Remote, square
BP	Battery

[POWER] Power	
E	85...265 V AC
G	20...36 V DC
B	3.6 V battery
S	9...36 V DC solar

[OUTPUT] Output	
A	4–20 mA + pulse + RS-485
B	HART
C	Profibus
D	HART + RS-485
T	Telemetry + logger + GSM/4G
N	None

[ACCURACY] Accuracy	
S	±0.5%
H	±0.2%

[PROTECTION] Protection	
55	IP65/65
57	IP67/65
58	IP67/68
68	IP68/68

[MATERIAL] Material	
1	SS304 tube + CS housing
2	SS304 full
3	SS316 full

NICO default configuration

A common NICO default is ...-D16-PT-S3-FL-C1-E-A-S-58-2 (DIN PN16 flange, PTFE liner, 316L electrodes, flanged, compact converter, AC power, 4–20 mA+pulse+RS-485, $\pm 0.5\%$, IP67/IP68, SS304). Adjust each field to the application.

Installation Guidelines

1. Keep the measuring tube **completely full** at all times (avoid the highest point of the line).
2. Provide straight runs of $\geq 5 \times \text{DN}$ upstream and $\geq 3 \times \text{DN}$ downstream (confirm with the installation guide).
3. Install with the electrode axis horizontal so gas bubbles do not cover the electrodes.
4. Fit grounding rings / grounding electrodes and bond the meter to the process ground.
5. Mount downstream of valves and a few diameters away from pump discharge where possible.
6. For the insertion types, observe the hot-tap procedure and insertion depth.

Maintenance & Troubleshooting

Symptom	Likely cause	Action
Reading drifts or reads low	Electrode coating / build-up; partially empty pipe	Clean electrodes; verify the pipe is full; check empty-pipe alarm
Empty-pipe alarm active	Pipe not full or low conductivity	Ensure full pipe; confirm conductivity $\geq 5 \mu\text{S}/\text{cm}$
Unstable / noisy reading	Poor grounding or nearby disturbance	Check grounding rings and process bonding; review straight runs
No output / display fault	Power or wiring fault	Check supply, wiring and output load ($\leq 750 \Omega$ for 4–20 mA)
Zero offset at no flow	Zero not set on a full, static pipe	Re-zero with the pipe full and no flow

MAG20 — Electromagnetic Flowmeter Variants

MAG20

Standard Flanged Type

MAG20-R

Remote Converter Type

MAG20-B

Battery-Powered Type

MAG20-IS

Insertion Type — Threaded (Hot-Tap)

MAG20-IF

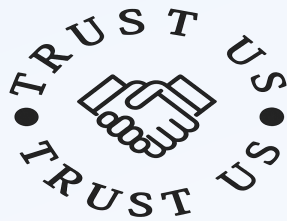
Insertion Type — Flanged

MAG20-WF

Wafer Type

MAG20-EX

Explosion-Proof Type





☎ Tel: +98 21 65020398
+98 21 65020374

☎ Fax: +98 21 65020361

☎ Factory Add.: Block 34, End of 6th St., Payam Special Economic Zone, Karaj, Iran

☎ Office Add.: Block 2, First Floor, No. 3, Farhadih deadend, Tohid St., Tehran, Iran

☎ Whats App No.: +989109660710

☎ Mail: info@nikaansanat.com

☎ Web: www.nikaansanat.com