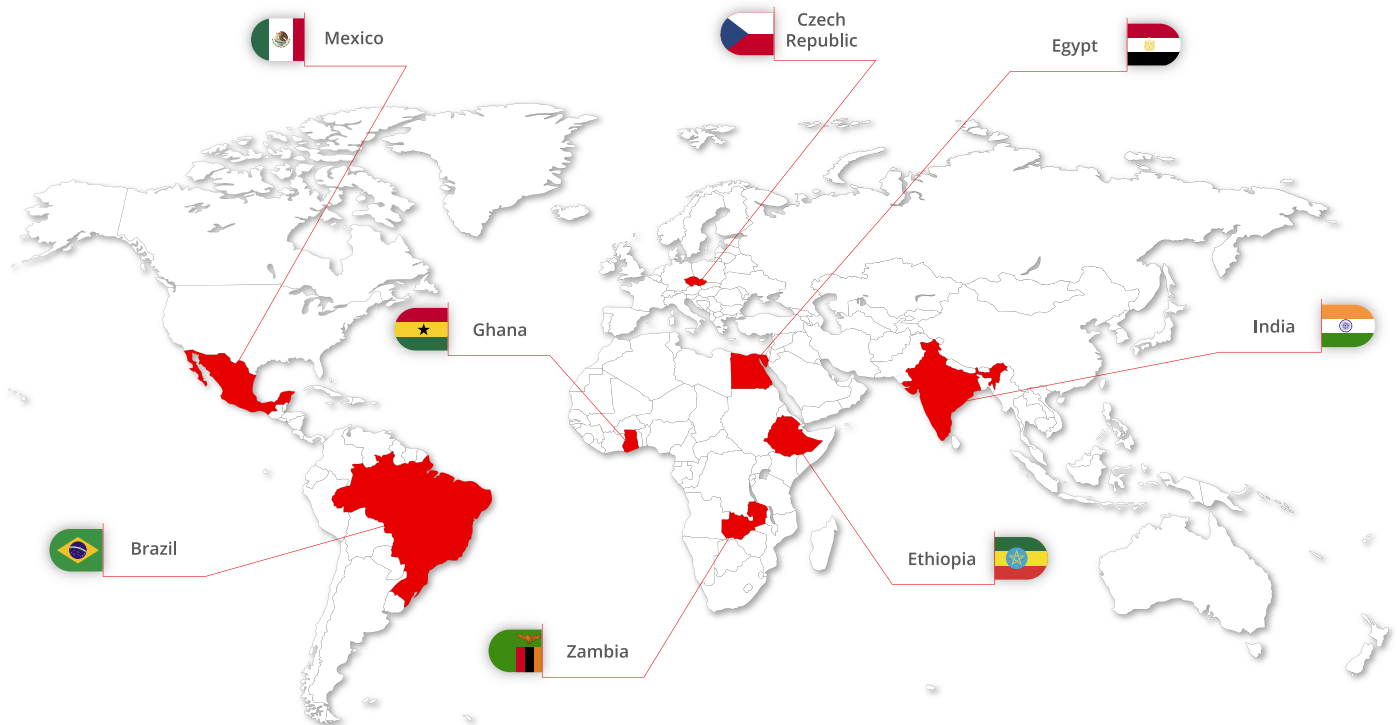




WATER METERING CATALOGUE



More than **20 Million** Meters running in **46 Countries**



Founded in 1998, El Sewedy Electrometer Group is a world class provider of cutting edge Electricity, Water and Gas Metering Solutions & Services tailored to Manage Utilities Better. With the ability to produce 5 million meters/annum; EMG serves its customers in 46 countries around the world through 10 strategically located factories in the Egypt, Ethiopia, Ghana, Zambia, Czech Republic, Mexico, Brazil, and India,

Over the past 19 years, EMG supported Utilities across the world with metering solutions and services that helped them overcome operational challenges of Revenue Collection, Losses Reduction and Load Management, which lead to better asset utilization, improved efficiency and operational costs reduction.

El Sewedy EMG's comprehensive strategy in enhancing the quality of its metering solutions lies in its continuous development of its processes. El Sewedy EMG has been awarded the Total Quality Certification of ISO 9001, ISO 14001 & OHSAS 18001.

What separates us from our competitors is our continued investment in R&D activities. Appointing 150 engineers to the task, we host the position of being one of the top platforms for research and development in the metering industry worldwide. Our development teams are responsible for all metering solutions and services during the design, engineering, production, installation, and operation processes. This dedication is a reflection of our responsibility in ensuring that our customers' needs have been properly addressed.



10 Factories in 8 Countries worldwide
with more than 1,500 employees



More than 20 Million Meters running
in 46 Countries



R&Ds operating in 3 strategic
locations



Ability to produce 5 million
meters/annum



On the PRIME Alliance Board of
Directors with a strong Ecosystem of
Industry Leaders & Strategic
Partnerships

Total Quality Certification:



ISO 9001



ISO 14001



OHSAS 18001



ISO 17025

Minor-caliber prepaid water meter

WMR Series (15/20/25 mm)

Mechanical Characteristics:

- Multi jet, Dry type, Made of PPO or brass
- Inbuilt ball valve
- LCD display and mechanical register or LED display and mechanical register
- Horizontal installation



TO BE MADE FOR DIFFERENT SYSTEMS

Prepaid water meter (for one user)

- Powered by battery (6 years)
- Available for one price or multi prices of water pricing system
- Keep the record of 12 months water consumption
- For one user
- For unified management of water, gas and electricity meter system

Prepaid water meter (for multi users)

- Powered by SV converted from 220V electricity
- For multi users



mm	Q3	Measurement range ratio	Pressure	Pressure loss	Accuracy	Max reading
DN15	2.5	Q3/Q1=125,100,80 63,50	MAP10(0.03~1MPa)	△P63	Class 2	99999.9999m ³
DN20	4.0					
DN25	4.5					

			D1	D2	D3	A	B	C
1-	Water temperature: 0.1~30°C		190	258	238	1/2"	1/2"	1/2"
2-	Water quality: inclusion-free water		195	299	279	3/4"	3/4"	3/4"
			225	345	325	1"	1"	1"

Minor-caliber AMR water meter

WMR Series (15/20/25 mm)

Mechanical Characteristics:

- Multi jet, Dry type, Made of PPO or brass
- Inbuilt ball valve
- LCD display and mechanical register
- Horizontal installation

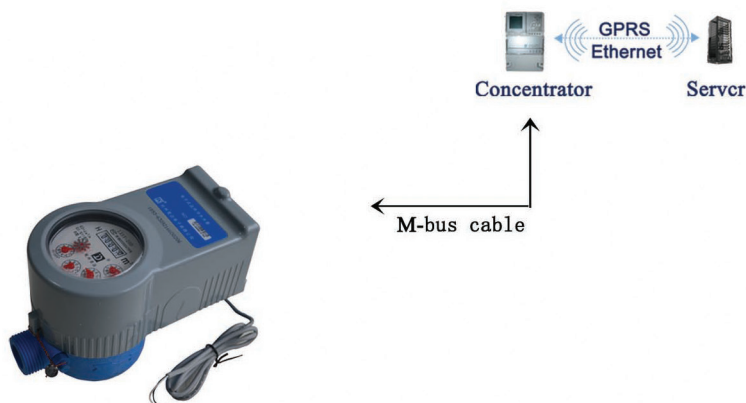


TO BE MADE FOR DIFFERENT SYSTEMS

AMR water meter(wired)

M-bus cable communication

- Powered by concentrator via M-bus communication cable
- Spared battery in case of power failure
- Permanent data storage
- Time in real time clock in meter can be adjusted by concentrator
- Short distance communication with concentrator
- Available for remote read and control



mm	Q3	Measurement range ratio	Pressure	Pressure loss	Accuracy	Max reading
DN15	2.5	Q3/Q1=125,100,80 63,50	MAP10(0.03~1MPa)	△P63	Class 2	99999.9999m ³
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Minor-caliber AMR water meter

LORA WMR Series (15/20/25 mm)

Mechanical Characteristics:

- Multi jet, Dry type, Made of PPO or brass
- Inbuilt ball valve
- LCD display and mechanical register
- Horizontal installation



TO BE MADE FOR DIFFERENT SYSTEMS

AMR water meter (wireless)



Radio frequency communication

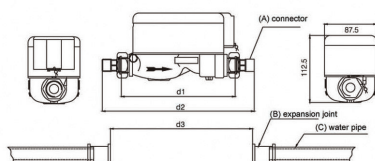
- Powered by battery (6 years)
- Radio frequency: 470MHz~510MHz
- 7 layers data transmission
- Permanent data storage
- Short distance communication with concentrator
- Available for remote read and control

mm	Q3	Measurement range ratio	Pressure	Pressure loss	Accuracy	Max reading
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DN15	2.5	Q3/Q1=125,100,80 63,50	MAP10(0.03~1MPa)	△P63	Class 2	99999.9999m ³
DN20	4.0					
DN25	4.5					

				D1	D2	D3	A	B	C
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- 1- Water temperature: 0.1~30°C
2- Water quality: inclusion-free water



190	258	238	1/2"	1/2"	1/2"
195	299	279	3/4"	3/4"	3/4"
225	345	325	1"	1"	1"

Large caliber vertical helix electronic water meter

WMR Series (32~100 mm)

Mechanical Characteristics:

- Vertical helix type water meter
- With inbuilt ball valve available for remote control
- LCD display & character wheel display
- Max.measuring range reaches R=500 in vertical installation
- Horizontal & Vertical installation
- Made of brass



TO BE MADE FOR DIFFERENT SYSTEMS

AMR water meter (wireless)

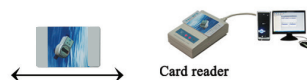
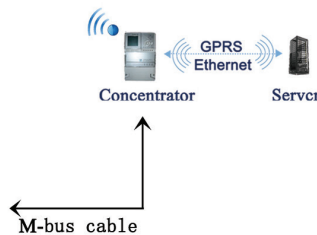
- Powered by battery (6 years)
- Radio frequency: 470MHZ-510MHZ
- 7 layers data transmission
- Permanent data storage
- Short distance communication with concentrator
- Available for remote read and control

AMR water meter (wired)

- Powered by concentrator via M-bus communication cable
- Spared battery in case of power failure
- Permanent data storage
- Time in real time clock in meter can be adjusted by concentrator
- Short distance communication with concentrator
- Available for remote read and control

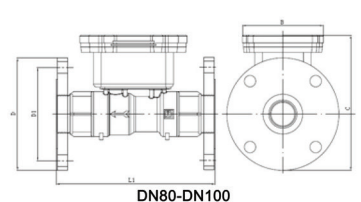
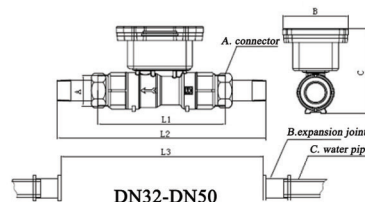
Prepaid water meter

- Powered by battery (6 years)
- For one user
- For multi users
- Keep the record of 12 months water consumption
- Available for one price or multi prices of water pricing system



	Dia. (mm)	Q3	Flow Range	Accuracy	Installation	L W H Thread					Flange			
						mm					A	External die. D1 mm	External die. D2 mm	Polt PCS
						L1	L2	L3	B	C				
WS-32D	DN32	25m3/h	Q3/Q1= 500 , 400 , 315 250 , 200 , 160 , 125 100 , 80 , 63 , 50	Class 2	V	230	355	325	126	163	1 ^{1/2} "	/	/	/
WS-40D	DN40					245	375	345	126	163	2"	/	/	/
WS-50D	DN50					280	435	400	126	163	2 ^{1/2} "	/	/	/
WS-80D	DN80	100m3/h	Q2/Q1= 1.6 , 2.6 4 , 6.3			370	/	/	126	250	/	190	160	8-M16
WS-100D	DN100					370	/	/	126	250	/	210	180	8-M16
WPH-32D	DN32	25m3/h	Q3/Q1= 100, 80 63 , 50		H	230	355	325	126	163	1 ^{1/2} "	/	/	/
WPH-40D	DN40					245	375	345	126	163	2"	/	/	/
WPH-50D	DN50					280	435	400	126	163	2 ^{1/2} "	/	/	/
WPH-80D	DN80	100m3/h	Q2/Q1=1.6 , 2.6 4 , 6.3			370	/	/	126	250	/	190	160	8-M16
WPH-100D	DN100					370	/	/	126	250	/	210	180	8-M16

- 1- Temperature:T30
- 2- Pressure Rating:MAP10
- 3- Pressure Loss:Δ p63
- 4- Upstream Sensitivity:U10
- 5- Downstream Sensitivity:DS
- 6- Climate and mechanical environment level: B
- 7- Electromagnetic environment level :E1
- 8- Does not measure backward flow



IC card prepaid ultrasonic water meter

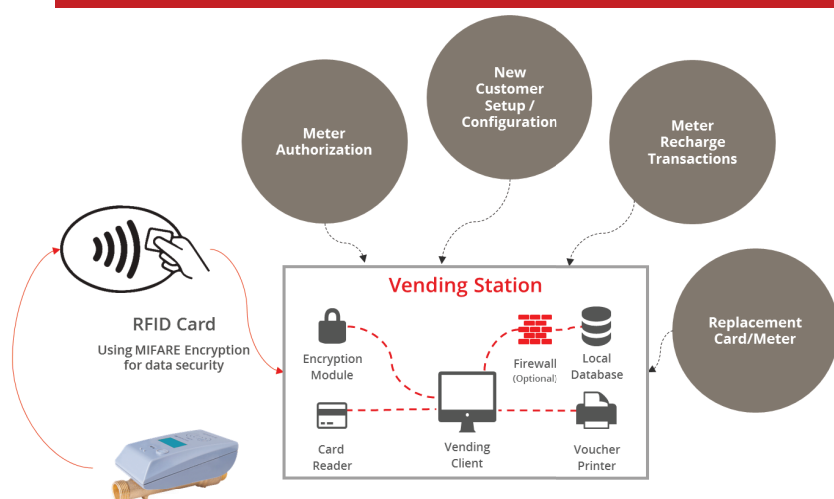
UWV Series 15/02W~25/02W

Advantage:

Integrated with technology of ultrasonic measuring, automatic control, IC card information technology and system software management, besides superiority of Measurement features of ultrasonic meters, this prepaid ultrasonic water meter has the advantage of high integration level, convenience on installation and use, complete functions of management and long service life



TO BE MADE FOR DIFFERENT SYSTEMS



Prepaid Ultrasonic Water Meter
UWV-15/02W~25/02W

OVERVIEW

- Size: DN15, DN20, DN25
- Card type: High security Mifare one card
- Valve: electronic valve; Alloy gear drive; Drive rate: 1:3600
- Management: IC card prepayment
- Constituent part: Prepaid ultrasonic water meter is composed of Straight-through meter body, ultrasonic Generating and reflex devices, the measuring tube, Integrator module, IC card control module, high performance durable battery, gear drive mechanism and electronic valve

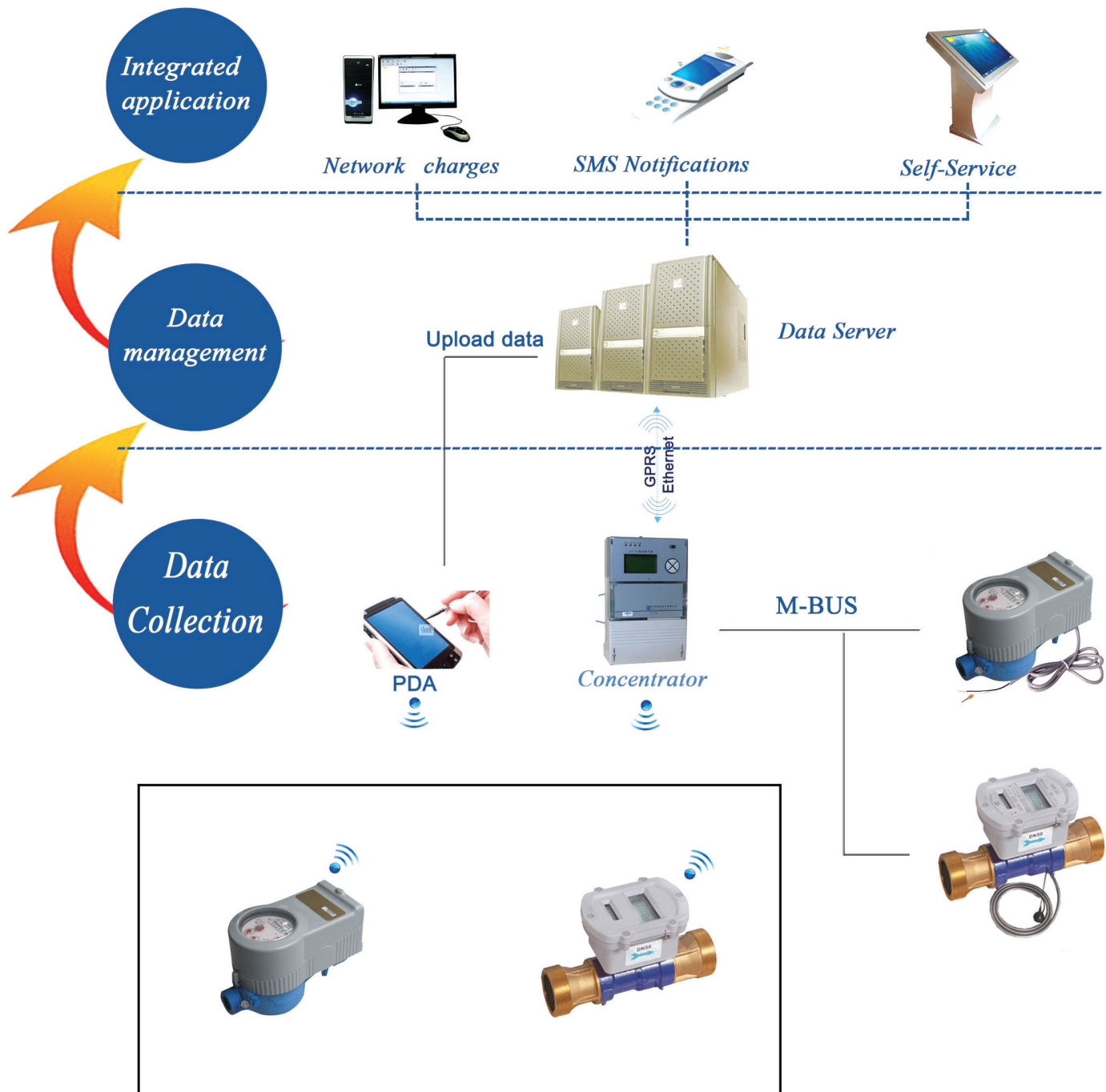
TECHNICAL FEATURE

The current consumption and remaining water is calculated while measuring water flow. Electronic valve keeps open till the remaining value is zero and can be open after be charged again. One meter is available for only one user card, blocking all other user cards. The ball surface and the interior structure of the reliable stainless steel ball valve have been treated specially to make the friction coefficient small to avoid leakage. Vario-scale drive using all-metal gear casing which the transmission ratio is 1:3600 is available for opening/close for over 6000 times. Low power consumption driver designed to have the battery service life longer than 6 years. Automatic maintenance: To avoid the invalid of valve caused by rusting for not action for long time, valve can be set up as open/close at regular intervals.

mm	Q3	Measurement range ratio	Pressure	Pressure loss	Accuracy	Max reading
DN15	2.5	Q3/Q1=125,100,80 63,50	MAP10(0.03~1MPa)	△P63	Class 2	99999.9999m ³
DN20	4.0					
DN25	4.5					

- 1- Water temperature: 0.1~30°C
- 2- Water quality: inclusion-free water

AMR SYSTEM(Wireless/Wired)





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