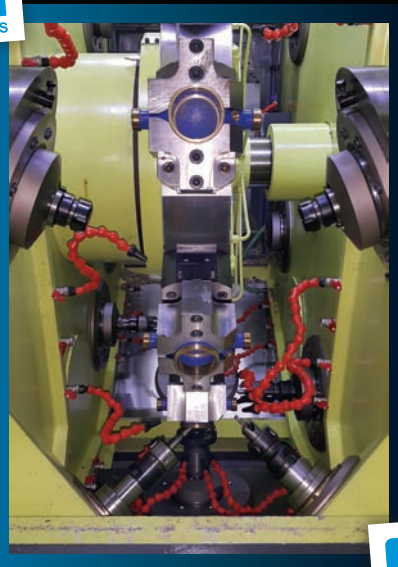
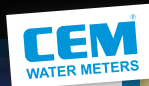
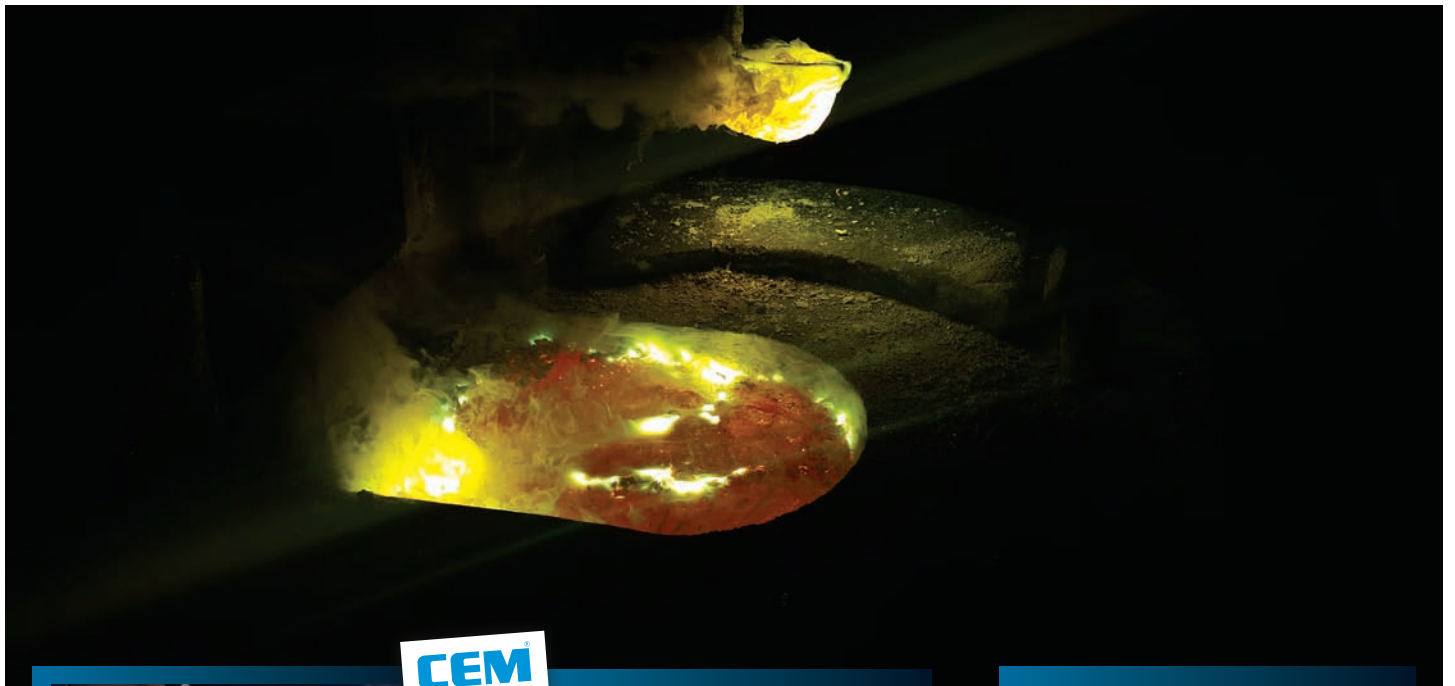


CEM[®] WATER METERS

PRODUCT CATALOG



CEM[®] WATER METERS

From Half Century to Today...

Our company continue producing with 14.000 m² open, 9.000 m² closed modern facility area thanks to thirty years of experience and accumulation about production processes in TURKEY.

Our company, has half century of experience in the sector, incorporated into CEM trademark in 2012 and walks adding new goals seriously to stay the course being the new door of our country and cities to open the World.

Our company, purposed to catch the technological progress with staff comprised of R&D team and eager engineers, continues work everyday with a new hope.

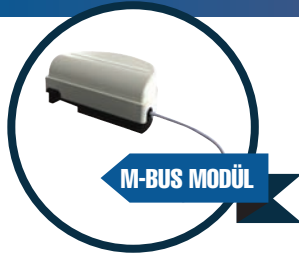
Our company, make production by means of our staff's meticulous works, has completed high-capacity works in TURKEY successfully and continue to produce best quality and efficient products

Our company, produces world class manufacturing about maesuring systems, posses all certificates gotten competent authorities related quality and environmental conscience.

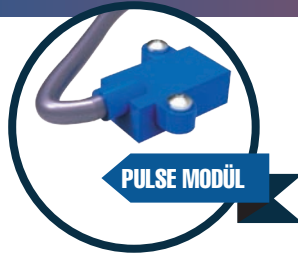
Our company is glad to produce products without sacrificing quality thanks to thirty years of experience and accumulation, and purpose to produce and develop more sensitive measuring systems.

Best Regards...





M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL

KDM1

DN15
110 mm



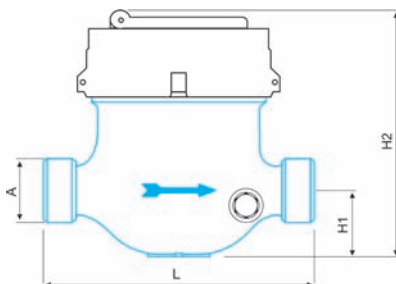
KS1

DN15
110 mm



METROLOGICAL SPECIFICATIONS

MODEL NAME			KDM1	KS1	
Nominal Diameter	DN	mm	15		
Meter Length	L	mm	110		
Permanent Flowrate	Q3	m³/h	2,5		
Maximum Flowrate	Q4	m³/h	3,125		
Measuring Range Ratio	Horizontal Connection	H	100	125	160
Transitional Flowrate			0,040	0,032	0,025
Minimum Flowrate			0,025	0,020	0,016
Temperature Class	T	°C	50	70-90-30/90	
Transitional Flowrate Ratio	-	-	1,6		
Pressure Drop		bar	0,63		
Maximum Working Pressure		bar	16		
Registration Capacity		m³	99999		
Minimum Reading Resolution		lt	0,05		



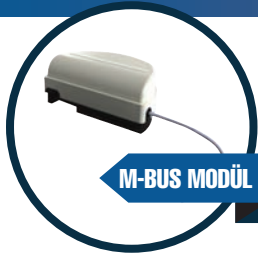
GENERAL CHARACTERISTICS

- Vacuum mechanism with dust and steam protection
- Protected against magnetic interference
- Long durability thanks to multi jet design
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

DIMENSIONS



Nominal Diameter	DN	15	(1/2 inch)
Length	L	110	mm
Axis Height	H1	28	mm
Total Height	H2	98	mm
Width	W	75	mm
Connection Diameter	A	G 3/4 B	
Weight		0,92	kg
Package Weight		9,5	kg
Package Dimensions		49x24x14	cm



M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL

KDM2

DN15
165 mm



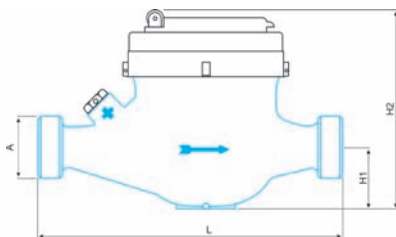
KS2

DN15
165 mm



METROLOGICAL SPECIFICATIONS

MODEL NAME			KDM2	KS2	
Nominal Diameter	DN	mm	15		
Meter Length	L	mm	165		
Permanent Flowrate	Q3	m³/h	2,5		
Maximum Flowrate	Q4	m³/h	3,125		
Measuring Range Ratio	Horizontal Connection	H	100	125	160
Transitional Flowrate			0,040	0,032	0,025
Minimum Flowrate			0,025	0,020	0,016
Temperature Class	T	°C	50	70-90-30/90	
Transitional Flowrate Ratio	-	-	1,6		
Pressure Drop		bar	0,63		
Maximum Working Pressure		bar	16		
Registration Capacity		m³	99999		
Minimum Reading Resolution		lt	0,05		



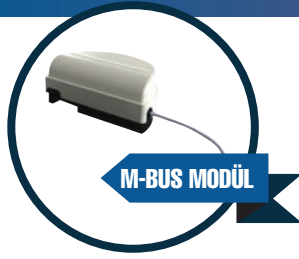
GENERAL CHARACTERISTICS

- Vacuum mechanism with dust and steam protection
- Protected against magnetic interference
- Long durability thanks to multi jet design
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

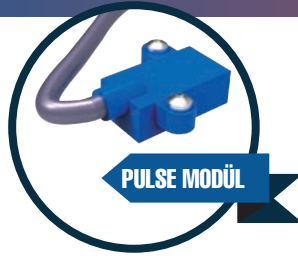
DIMENSIONS



Nominal Diameter	DN	15	(1/2 inch)
Length	L	165	mm
Axis Height	H1	30	mm
Total Height	H2	108	mm
Width	W	86	mm
Connection Diameter	A	G 3/4 B	
Weight		1,1	kg
Package Weight		11,5	kg
Package Dimensions		47x20x25	cm



M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL

KDM3

DN20
110 mm



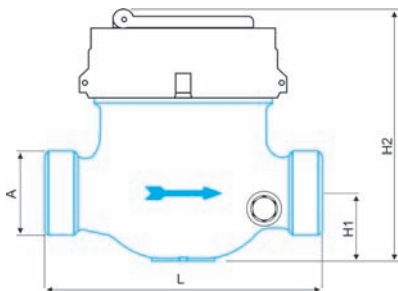
KS3

DN20
110 mm



METROLOGICAL SPECIFICATIONS

MODEL NAME			KDM3	KS3	
Nominal Diameter	DN	mm	20		
Meter Length	L	mm	110		
Permanent Flowrate	Q3	m³/h	2,5		
Maximum Flowrate	Q4	m³/h	3,125		
Measuring Range Ratio	Horizontal Connection	H	100	125	160
Transitional Flowrate			0,040	0,032	0,025
Minimum Flowrate			0,025	0,020	0,016
Temperature Class	T	°C	50	70-90-30/90	
Transitional Flowrate Ratio	-	-	1,6		
Pressure Drop		bar	0,63		
Maximum Working Pressure		bar	16		
Registration Capacity		m³	99999		
Minimum Reading Resolution		lt	0,05		

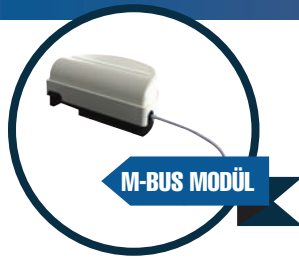


GENERAL CHARACTERISTICS

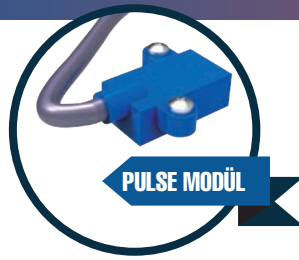
- Vacuum mechanism with dust and steam protection
- Protected against magnetic interference
- Long durability thanks to multi jet design
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

DIMENSIONS

Nominal Diameter	DN	20	(3/4 inch)
Length	L	110	mm
Axis Height	H1	28	mm
Total Height	H2	98	mm
Width	W	75	mm
Connection Diameter	A	G 1 B	
Weight		0,92	kg
Package Weight		9,5	kg
Package Dimensions		49x24x14	cm



M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL

KDM4

DN20
130 mm



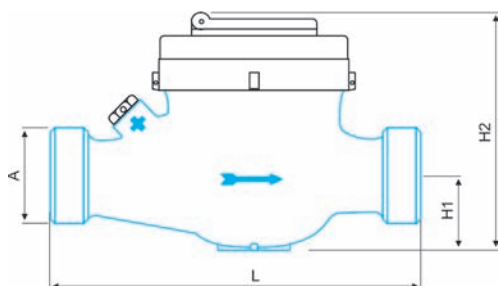
KS4

DN20
130 mm



METROLOGICAL SPECIFICATIONS

MODEL NAME			KDM4	KS4	
Nominal Diameter	DN	mm	20		
Meter Length	L	mm	130		
Permanent Flowrate	Q3	m³/h	2,5		
Maximum Flowrate	Q4	m³/h	3,125		
Measuring Range Ratio	Horizontal Connection	H	100	125	160
Transitional Flowrate			0,040	0,032	0,025
Minimum Flowrate			0,025	0,020	0,016
Temperature Class	T	°C	50	70-90-30/90	
Transitional Flowrate Ratio	-	-	1,6		
Pressure Drop		bar	0,63		
Maximum Working Pressure		bar	16		
Registration Capacity		m³	99999		
Minimum Reading Resolution		lt	0,05		



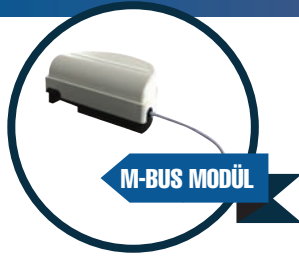
GENERAL CHARACTERISTICS

- Vacuum mechanism with dust and steam protection
- Protected against magnetic interference
- Long durability thanks to multi jet design
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

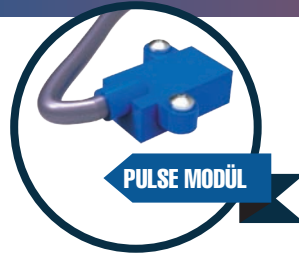
DIMENSIONS



Nominal Diameter	DN	20	(3/4 inch)
Length	L	130	mm
Axis Height	H1	30	mm
Total Height	H2	108	mm
Width	W	86	mm
Connection Diameter	A	G 1 B	
Weight		1,1	kg
Package Weight		11,5	kg
Package Dimensions		47x22x25	cm



M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL

KDM5

DN20
190 mm



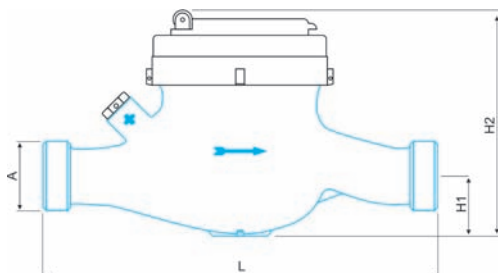
KS5

DN20
190 mm



METROLOGICAL SPECIFICATIONS

MODEL NAME			KDM5	KS5	
Nominal Diameter	DN	mm	20		
Meter Length	L	mm	190		
Permanent Flowrate	Q3	m³/h	2,5		
Maximum Flowrate	Q4	m³/h	3,125		
Measuring Range Ratio	Horizontal Connection	H	100	125	160
Transitional Flowrate			0,040	0,032	0,025
Minimum Flowrate			0,025	0,020	0,016
Temperature Class	T	°C	50	70-90-30/90	
Transitional Flowrate Ratio	-	-	1,6		
Pressure Drop		bar	0,63		
Maximum Working Pressure		bar	16		
Registration Capacity		m³	99999		
Minimum Reading Resolution		lt	0,05		



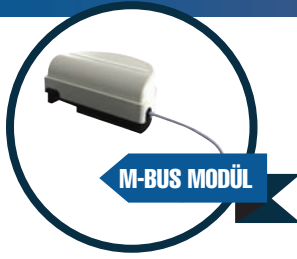
GENERAL CHARACTERISTICS

- Vacuum mechanism with dust and steam protection
- Protected against magnetic interference
- Long durability thanks to multi jet design
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

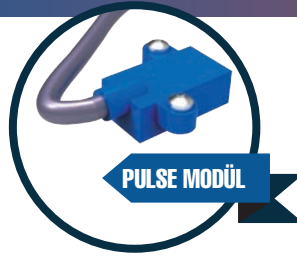
DIMENSIONS

Nominal Diameter	DN	20	(3/4 inch)
Length	L	190	mm
Axis Height	H1	30	mm
Total Height	H2	108	mm
Width	W	86	mm
Connection Diameter	A	G 1 B	
Weight		1,2	kg
Package Weight		12	kg
Package Dimensions		47x22x25	cm





M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL

KDM6

DN20
190 mm



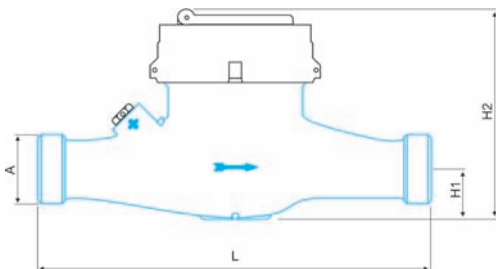
KS6

DN20
190 mm



METROLOGICAL SPECIFICATIONS

MODEL NAME			KDM6	KS6	
Nominal Diameter	DN	mm	25		
Meter Length	L	mm	190		
Permanent Flowrate	Q3	m³/h	2,5		
Maximum Flowrate	Q4	m³/h	3,125		
Measuring Range Ratio	Horizontal Connection	H	100	125	160
Transitional Flowrate			0,040	0,032	0,025
Minimum Flowrate			0,025	0,020	0,016
Temperature Class	T	°C	50	70-90-30/90	
Transitional Flowrate Ratio	-	-	1,6		
Pressure Drop		bar	0,63		
Maximum Working Pressure		bar	16		
Registration Capacity		m³	99999		
Minimum Reading Resolution		lt	0,05		



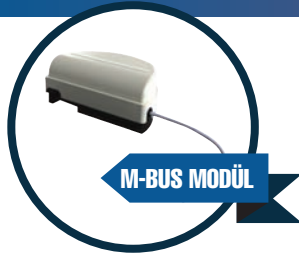
GENERAL CHARACTERISTICS

- Vacuum mechanism with dust and steam protection
- Protected against magnetic interference
- Long durability thanks to multi jet design
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

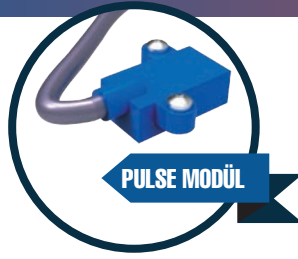
DIMENSIONS



Nominal Diameter	DN	20	(3/4 inch)
Length	L	190	mm
Axis Height	H1	30	mm
Total Height	H2	108	mm
Width	W	75	mm
Connection Diameter	A	G 1 B	
Weight		1,1	kg
Package Weight		11	kg
Package Dimensions		47x22x25	cm



M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL

KDM7

DN20
190 mm



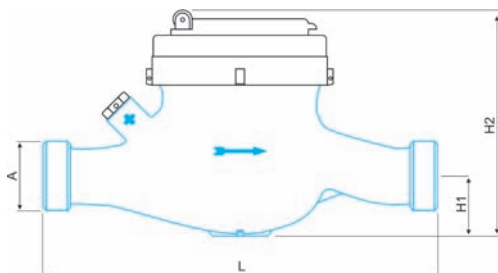
KS7

DN20
190 mm



METROLOGICAL SPECIFICATIONS

MODEL NAME			KDM7		KS7	
Nominal Diameter	DN	mm	20			
Meter Length	L	mm	190			
Permanent Flowrate	Q3	m³/h	4			
Maximum Flowrate	Q4	m³/h	5			
Measuring Range Ratio	Horizontal Connection	H	100	125	160	
Transitional Flowrate			0,064	0,051	0,040	
Minimum Flowrate			0,040	0,032	0,025	
Temperature Class	T	°C	50	70-90-30/90		
Transitional Flowrate Ratio	-	-	1,6			
Pressure Drop		bar	0,63			
Maximum Working Pressure		bar	16			
Registration Capacity		m³	99999			
Minimum Reading Resolution		lt	0,05			



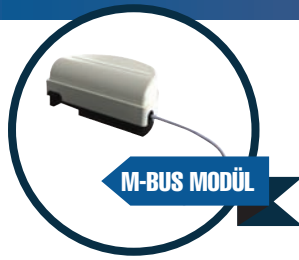
GENERAL CHARACTERISTICS

- Vacuum mechanism with dust and steam protection
- Protected against magnetic interference
- Long durability thanks to multi jet design
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

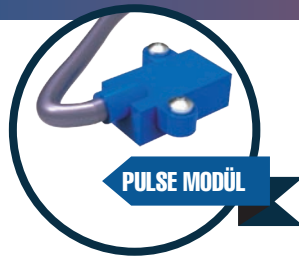
DIMENSIONS



Nominal Diameter	DN	20	(3/4 inch)
Length	L	190	mm
Axis Height	H1	30	mm
Total Height	H2	108	mm
Width	W	86	mm
Connection Diameter	A	G 1 B	
Weight		1,2	kg
Package Weight		12	kg
Package Dimensions		47x22x25	cm



M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL

KDM8

DN25
260 mm



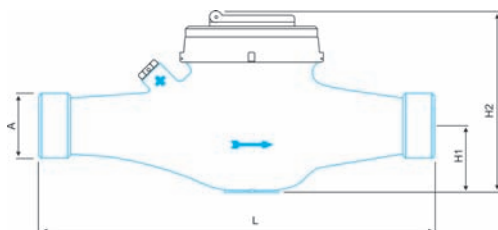
KS8

DN25
260 mm



METROLOGICAL SPECIFICATIONS

MODEL NAME			KDM8	KS8	
Nominal Diameter	DN	mm	25		
Meter Length	L	mm	260		
Permanent Flowrate	Q3	m³/h	6,3		
Maximum Flowrate	Q4	m³/h	7,88		
Measuring Range Ratio	Horizontal Connection	H	100	125	160
Transitional Flowrate			0,101	0,081	0,063
Minimum Flowrate			0,063	0,050	0,039
Temperature Class	T	°C	50	70-90-30/90	
Transitional Flowrate Ratio	-	-	1,6		
Pressure Drop		bar	0,63		
Maximum Working Pressure		bar	16		
Registration Capacity		m³	99999		
Minimum Reading Resolution		lt	0,05		



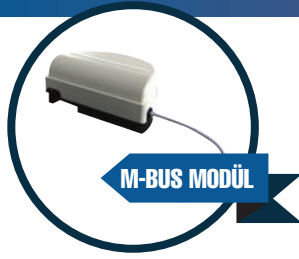
GENERAL CHARACTERISTICS

- Vacuum mechanism with dust and steam protection
- Protected against magnetic interference
- Long durability thanks to multi jet design
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

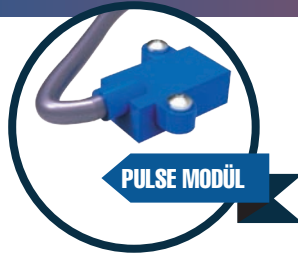
DIMENSIONS



Nominal Diameter	DN	25	(1 inch)
Length	L	260	mm
Axis Height	H1	43	mm
Total Height	H2	120	mm
Width	W	98	mm
Connection Diameter	A	G 1 ¼ B	
Weight		2,1	kg
Package Weight		12,5	kg
Package Dimensions		54x30x17	cm



M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL

KDM9

DN32
260 mm



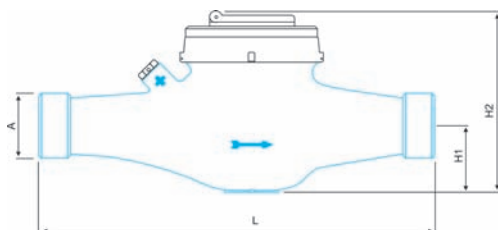
KS9

DN32
260 mm



METROLOGICAL SPECIFICATIONS

MODEL NAME			KDM9	KS9	
Nominal Diameter	DN	mm	32		
Meter Length	L	mm	260		
Permanent Flowrate	Q3	m³/h	10		
Maximum Flowrate	Q4	m³/h	12,50		
Measuring Range Ratio	Horizontal Connection	H	100	125	160
Transitional Flowrate			0,160	0,128	0,100
Minimum Flowrate			0,100	0,080	0,063
Temperature Class	T	°C	50	70-90-30/90	
Transitional Flowrate Ratio	-	-	1,6		
Pressure Drop		bar	0,63		
Maximum Working Pressure		bar	16		
Registration Capacity		m³	99999		
Minimum Reading Resolution		lt	0,05		



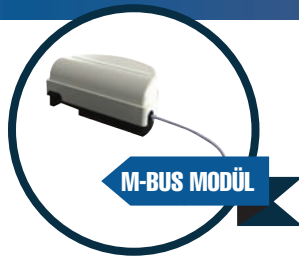
GENERAL CHARACTERISTICS

- Vacuum mechanism with dust and steam protection
- Protected against magnetic interference
- Long durability thanks to multi jet design
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

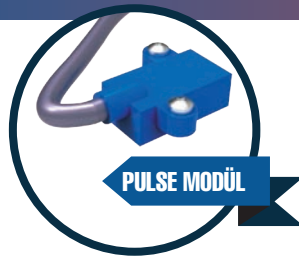
DIMENSIONS



Nominal Diameter	DN	32	(1¼ inch)
Length	L	260	mm
Axis Height	H1	43	mm
Total Height	H2	120	mm
Width	W	98	mm
Connection Diameter	A	G 1½ B	
Weight		2,2	kg
Package Weight		11,5	kg
Package Dimensions		54x30x17	cm



M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL

KDM10

DN40
300 mm



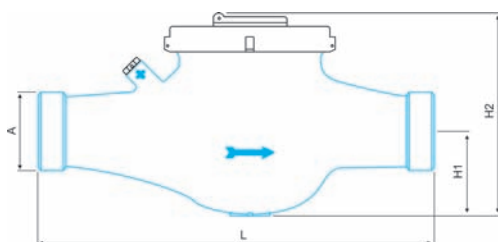
KS10

DN40
300 mm



METROLOGICAL SPECIFICATIONS

MODEL NAME			KDM10	KS10	
Nominal Diameter	DN	mm	40		
Meter Length	L	mm	300		
Permanent Flowrate	Q3	m³/h	16		
Maximum Flowrate	Q4	m³/h	20,00		
Measuring Range Ratio	Horizontal Connection	H	100	125	160
Transitional Flowrate			0,256	0,205	0,160
Minimum Flowrate			0,160	0,128	0,100
Temperature Class	T	°C	50	70-90-30/90	
Transitional Flowrate Ratio	-	-	1,6		
Pressure Drop		bar	0,63		
Maximum Working Pressure		bar	16		
Registration Capacity		m³	99999		
Minimum Reading Resolution		lt	0,05		



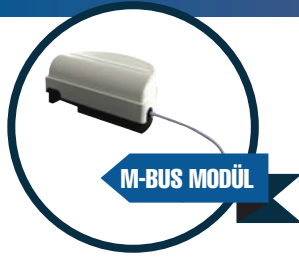
GENERAL CHARACTERISTICS

- Vacuum mechanism with dust and steam protection
- Protected against magnetic interference
- Long durability thanks to multi jet design
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

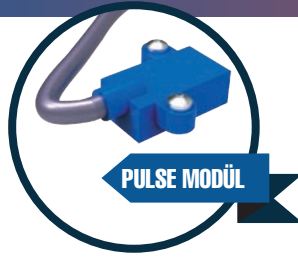
DIMENSIONS



Nominal Diameter	DN	40	(1½ inch)
Length	L	300	mm
Axis Height	H1	62	mm
Total Height	H2	150	mm
Width	W	127	mm
Connection Diameter	A	G 2 B	
Weight		4,6	kg
Package Weight		14,2	kg
Package Dimensions		47x36x20	cm



M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL

KDM11

**DN50
300 mm**



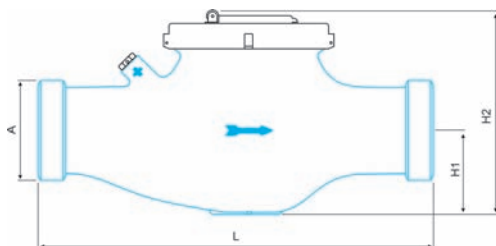
KS11

**DN50
300 mm**



METROLOGICAL SPECIFICATIONS

MODEL NAME			KDM11	KS11	
Nominal Diameter	DN	mm	50		
Meter Length	L	mm	300		
Permanent Flowrate	Q3	m³/h	25		
Maximum Flowrate	Q4	m³/h	31,25		
Measuring Range Ratio	Horizontal Connection	H	100	125	160
Transitional Flowrate			0,400	0,320	0,250
Minimum Flowrate			0,250	0,200	0,156
Temperature Class	T	°C	50	70-90-30/90	
Transitional Flowrate Ratio	-	-	1,6		
Pressure Drop		bar	0,63		
Maximum Working Pressure		bar	16		
Registration Capacity		m³	99999		
Minimum Reading Resolution		lt	0,05		



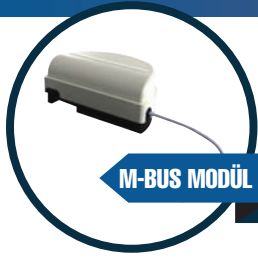
GENERAL CHARACTERISTICS

- Vacuum mechanism with dust and steam protection
- Protected against magnetic interference
- Long durability thanks to multi jet design
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

DIMENSIONS



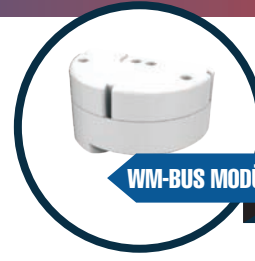
Nominal Diameter	DN	50	(2 inch)
Length	L	300	mm
Axis Height	H1	62	mm
Total Height	H2	150	mm
Width	W	127	mm
Connection Diameter	A	G 2½ B	
Weight		5	kg
Package Weight		15,3	kg
Package Dimensions		47x36x20	cm



M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL

KDM12

DN50
350 mm



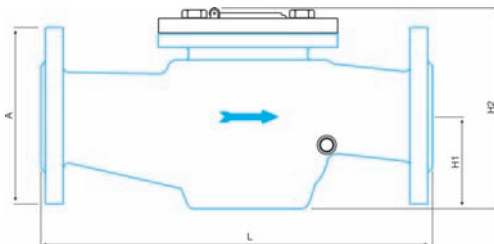
KS12

DN50
350 mm



METROLOGICAL SPECIFICATIONS

MODEL NAME			KDM12	KS12	
Nominal Diameter	DN	mm	50		
Meter Length	L	mm	350		
Permanent Flowrate	Q3	m³/h	25		
Maximum Flowrate	Q4	m³/h	31,25		
Measuring Range Ratio	Horizontal Connection	H	100	125	160
Transitional Flowrate			0,400	0,320	0,250
Minimum Flowrate			0,250	0,200	0,156
Temperature Class	T	°C	50	70-90-30/90	
Transitional Flowrate Ratio	-	-	1,6		
Pressure Drop		bar	0,63		
Maximum Working Pressure		bar	16		
Registration Capacity		m³	99999		
Minimum Reading Resolution		lt	0,05		



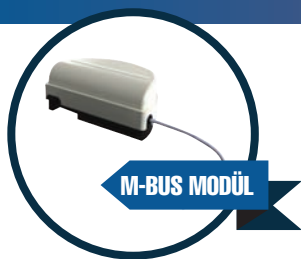
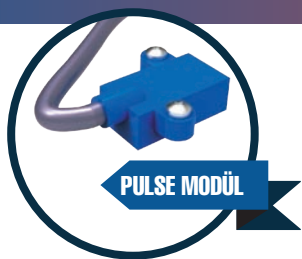
GENERAL CHARACTERISTICS

- Vacuum mechanism with dust and steam protection
- Protected against magnetic interference
- Long durability thanks to multi jet design
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

DIMENSIONS



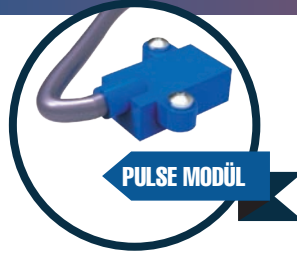
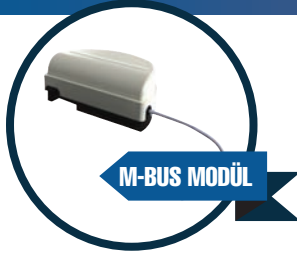
Nominal Diameter	DN	50	(2 inch)
Length	L	350	mm
Axis Height	H1	80	mm
Total Height	H2	150	mm
Width	W	160	mm
Connection Diameter	A	2	inch (Flanşlı)
Weight (Flanşlar dahil)		18	kg
Package Dimensions		41x18,5x20	cm


M-BUS MODÜL

PULSE MODÜL

WM-BUS MODÜL
KT Series
**DN15-20
80-190 mm**

METROLOGICAL SPECIFICATIONS

MODEL NAME			KT9	KT11	KT10		KT12		KT13	KT14	KT15	KT16	KT17	KT18		
Nominal Diameter	DN	mm	15		15			20			20					
Meter Length	L	mm	80	110	80		110		110	130	190	110	130	190		
Permanent Flowrate	Q3	m³/h	1,6		2,5			2,5			4					
Maximum Flowrate	Q4	m³/h	2		3,125			3,125			5					
Measuring Range Ratio	Horizontal Connection	H	80	100	80	100	160	80	100	160	80	100	160			
Transitional Flowrate			0,0320	0,0256	0,0500	0,0400	0,0250	0,0500	0,0400	0,0250	0,08	0,064	0,04			
Minimum Flowrate			0,0200	0,0160	0,0313	0,0250	0,0156	0,0313	0,0250	0,0156	0,05	0,04	0,025			
Measuring Range Ratio	Vertical Connection	V	40	50	40		50		40		50		40		50	
Transitional Flowrate			0,0640	0,0512	0,1000		0,0800		0,1000		0,0800		0,1600		0,1280	
Minimum Flowrate			0,0400	0,0320	0,0625		0,0500		0,0625		0,0500		0,1000		0,0800	
Temperature Class			T30 T50 T70 T90 T30/90													
Transitional Flowrate Ratio	-	-	1,6													
Pressure Drop		bar	0,63													
Maximum Working Pressure		bar	16													
Registration Capacity		m³	99999													
Minimum Reading Resolution		lt	0,05													

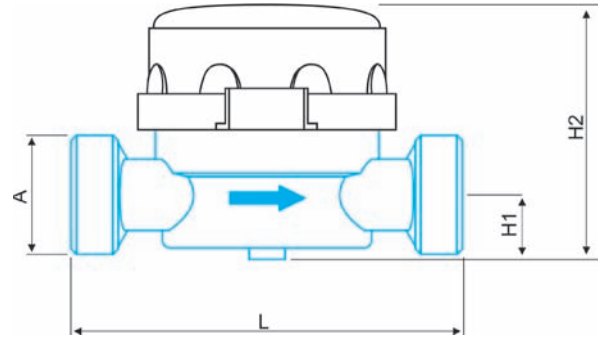


KT Series

**DN15-20
80-190 mm**

GENERAL CHARACTERISTICS

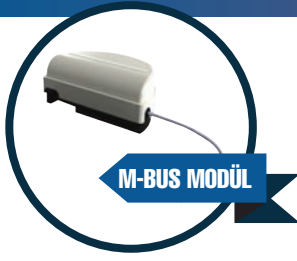
- MID ve GOST direktiflerine uygun
- Tek hüzmeli, kuru tip
- Vakumlu, toz ve buharlanmaya karşı korumalı mekanizma
- Manyetik müdahaleye karşı korumalı
- 360° dönebilen yazıcı grubu ile kolay okuma imkanı
- Optik okumaya uygun
- Korozyona dayanıklı pirinç gövde
- Tüm parçaları su ile temasa uygun malzemeden üretilmiş
- 99999 m³ kayıt kapasitesi
- Safir taşlı yataklama ile uzun ömürlü çalışma
- Opsiyonel olarak PULSE çıkış modülü ekleyebilme



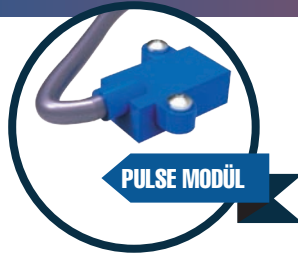
DIMENSIONS



MODEL NAME			KT9	KT10	KT11	KT12	KT13	KT14	KT15	KT16	KT17	KT18
Nominal Diameter	DN	mm	15			20			20			
		inch	1/2"			3/4"			3/4"			
Length	L	mm	80	110		110	130	190	110	130	190	
Axis Height	H1		18	18		18	18			18		
Total Height	H2		71	71		71	71			71		
Connection Diameter	A		G 3/4 B		G 3/4 B		G 1 B			G 1 B		



M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL

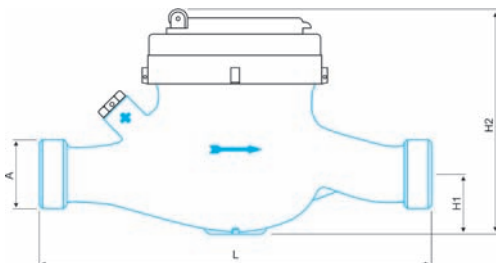
ÇYT1

**DN20
190 mm**



METROLOGICAL SPECIFICATIONS

MODEL NAME			ÇYT1
Nominal Diameter	DN	mm	20
Meter Length	L	mm	190
Permanent Flowrate	Q3	m³/h	2,5
Maximum Flowrate	Q4	m³/h	3,125
Measuring Range Ratio	Horizontal Connection	H	100
Transitional Flowrate			0,040
Minimum Flowrate			0,025
Temperature Class	T	°C	50
Transitional Flowrate Ratio	-	-	1,6
Pressure Drop		bar	0,63
Maximum Working Pressure		bar	16
Registration Capacity		m³	99999
Minimum Reading Resolution		lt	0,05



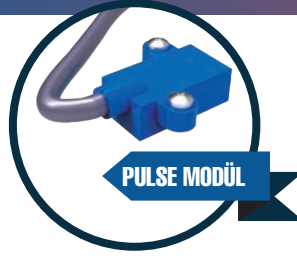
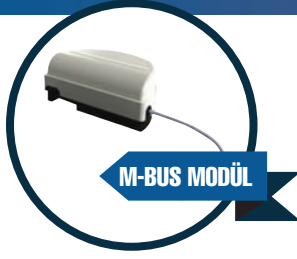
GENERAL CHARACTERISTICS

- Semi-dry type mechanism with glycerin
- Long durability thanks to multi jet design
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

DIMENSIONS



Nominal Diameter	DN	20	(3/4 inch)
Length	L	190	mm
Axis Height	H1	30	mm
Total Height	H2	108	mm
Width	W	86	mm
Connection Diameter	A	G 1 B	
Weight		1,2	kg
Package Weight		12	kg
Package Dimensions		47x22x25	cm



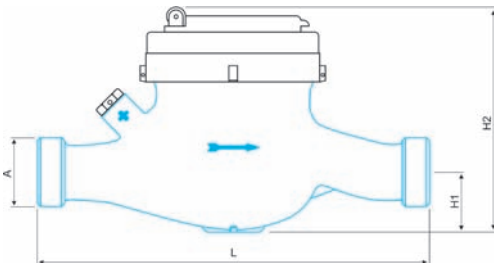
ÇYT2

**DN20
190 mm**



TEKNİK ÖZELLİKLER

MODEL NAME			ÇYT2
Nominal Diameter	DN	mm	20
Meter Length	L	mm	190
Permanent Flowrate	Q3	m³/h	2,5
Maximum Flowrate	Q4	m³/h	3,125
Measuring Range Ratio	Horizontal Connection	H	160
Transitional Flowrate			0,025
Minimum Flowrate			0,016
Temperature Class	T	°C	50
Transitional Flowrate Ratio	-	-	1,6
Pressure Drop		bar	0,63
Maximum Working Pressure		bar	16
Registration Capacity		m³	99999
Minimum Reading Resolution		lt	0,05



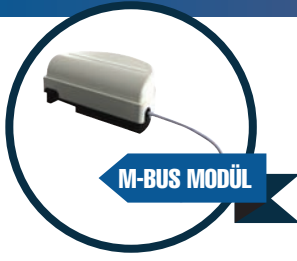
GENERAL CHARACTERISTICS

- Semi-dry type mechanism with glycerin
- Long durability thanks to multi jet design
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

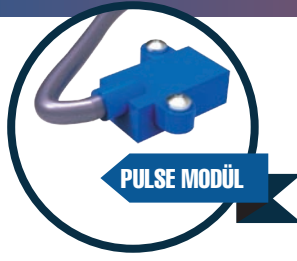


DIMENSIONS

Nominal Diameter	DN	20	(3/4 inch)
Length	L	190	mm
Axis Height	H1	30	mm
Total Height	H2	108	mm
Width	W	86	mm
Connection Diameter	A	G 1 B	
Weight		1,2	kg
Package Weight		12	kg
Package Dimensions		47x22x25	cm



M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL

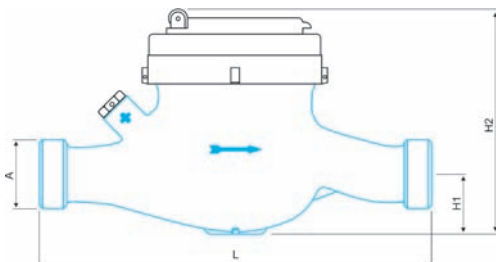
ÇYT3

**DN20
190 mm**



METROLOGICAL SPECIFICATIONS

MODEL NAME			ÇYT3
Nominal Diameter	DN	mm	20
Meter Length	L	mm	190
Permanent Flowrate	Q3	m³/h	2,5
Maximum Flowrate	Q4	m³/h	3,125
Measuring Range Ratio	Horizontal Connection	H	100
Transitional Flowrate			0,040
Minimum Flowrate			0,025
Temperature Class	T	°C	50
Transitional Flowrate Ratio	-	-	1,6
Pressure Drop		bar	0,63
Maximum Working Pressure		bar	16
Registration Capacity		m³	99999
Minimum Reading Resolution		lt	0,05



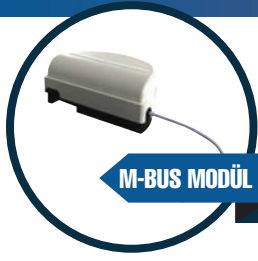
GENERAL CHARACTERISTICS

- Semi-dry type mechanism with glycerin
- Long durability thanks to multi jet design
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

DIMENSIONS



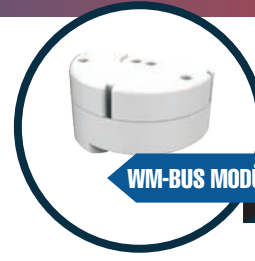
Nominal Diameter	DN	20	(3/4 inch)
Length	L	190	mm
Axis Height	H1	30	mm
Total Height	H2	108	mm
Width	W	86	mm
Connection Diameter	A	G 1 B	
Weight		1,2	kg
Package Weight		12	kg
Package Dimensions		47x22x25	cm



M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL



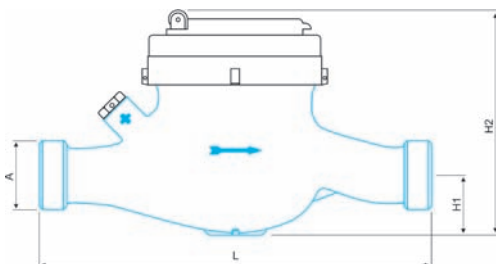
ÇYT5

**DN20
190 mm**



METROLOGICAL SPECIFICATIONS

MODEL NAME			ÇYT5
Nominal Diameter	DN	mm	20
Meter Length	L	mm	190
Permanent Flowrate	Q3	m³/h	2,5
Maximum Flowrate	Q4	m³/h	3,125
Measuring Range Ratio	Horizontal Connection	H	160
Transitional Flowrate			0,025
Minimum Flowrate			0,016
Temperature Class	T	°C	50
Transitional Flowrate Ratio	-	-	1,6
Pressure Drop		bar	0,63
Maximum Working Pressure		bar	16
Registration Capacity		m³	99999
Minimum Readin Resolution		lt	0,05



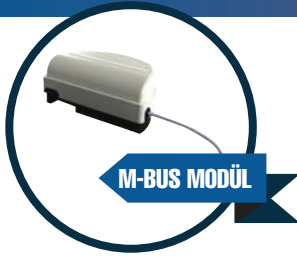
GENERAL CHARACTERISTICS

- Semi-dry type mechanism with glycerin
- Long durability thanks to multi jet design
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

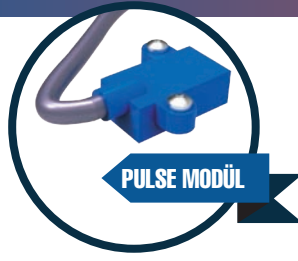
DIMENSIONS



Nominal Diameter	DN	20	(3/4 inch)
Length	L	190	mm
Axis Height	H1	30	mm
Total Height	H2	108	mm
Width	W	86	mm
Connection Diameter	A	G 1 B	
Weight		1,2	kg
Package Weight		12	kg
Package Dimensions		47x22x25	cm



M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL

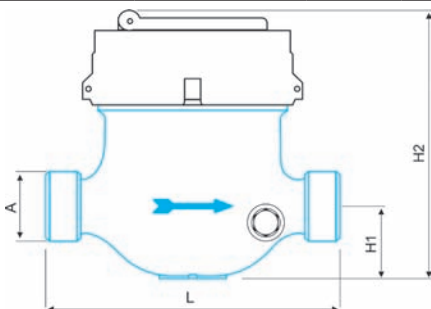
ÇYT6

**DN20
110 mm**



METROLOGICAL SPECIFICATIONS

MODEL NAME			ÇYT6
Nominal Diameter	DN	mm	20
Meter Length	L	mm	110
Permanent Flowrate	Q3	m³/h	2,5
Maximum Flowrate	Q4	m³/h	3,125
Measuring Range Ratio	Horizontal Connection	H	80
Transitional Flowrate			0,050
Minimum Flowrate			0,031
Temperature Class	T	°C	50
Transitional Flowrate Ratio	-	-	1,6
Pressure Drop		bar	0,63
Maximum Working Pressure		bar	16
Registration Capacity		m³	99999
Minimum Reading Resolution		lt	0,05

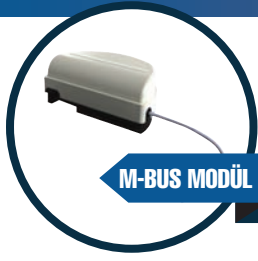


GENERAL CHARACTERISTICS

- Semi-dry type mechanism with glycerin
- Long durability thanks to multi jet design
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

DIMENSIONS

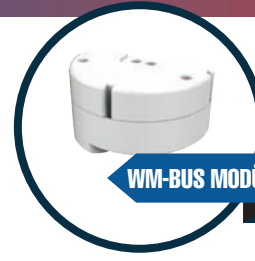
Nominal Diameter	DN	20	(3/4 inch)
Length	L	110	mm
Axis Height	H1	28	mm
Total Height	H2	98	mm
Width	W	75	mm
Connection Diameter	A	G 1 B	
Weight		0,92	kg
Package Weight		9,5	kg
Package Dimensions		49x24x14	cm



M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL



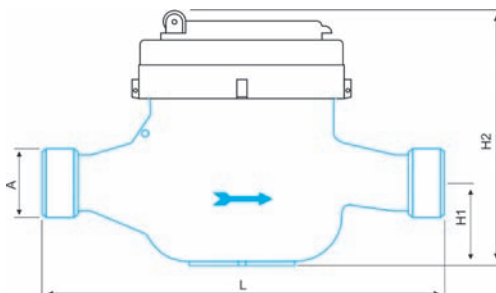
VD2

**DN15
165 mm**



METROLOGICAL SPECIFICATIONS

MODEL NAME			VD2				
Nominal Diameter	DN	mm	15				
Meter Length	L	mm	165				
Permanent Flowrate	Q3	m³/h	2,5				
Maximum Flowrate	Q4	m³/h	3,125				
Measuring Range Ratio	All Positions		160	200	250	315	400
Transitional Flowrate			0,025	0,020	0,016	0,013	0,010
Minimum Flowrate			0,016	0,013	0,010	0,008	0,006
Temperature Class	T	°C	50				
Transitional Flowrate Ratio	-	-	1,6				
Pressure Drop		bar	0,63				
Maximum Working Pressure		bar	16				
Registration Capacity		m³	99999				
Minimum Reading Resolution		lt	0,05				



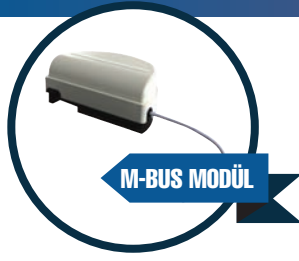
GENERAL CHARACTERISTICS

- Precise measurement with volumetric design
- Vacuum mechanism with dust and steam protection
- Protected against magnetic interference
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

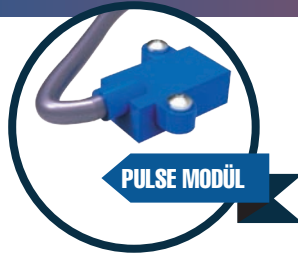
DIMENSIONS



Nominal Diameter	DN	15	(1/2 inch)
Length	L	165	mm
Axis Height	H1	38	mm
Total Height	H2	115	mm
Width	W	86	mm
Connection Diameter	A	G 3/4 B	
Weight		1,1	kg
Package Weight		11	kg
Package Dimensions		47x22x25	cm



M-BUS MODÜL



PULSE MODÜL



WM-BUS MODÜL

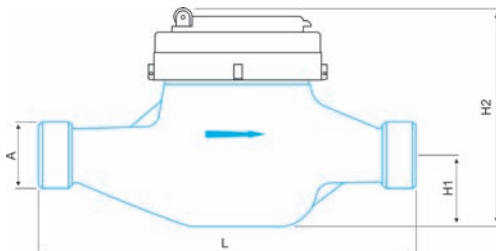
VD5

**DN20
190 mm**



METROLOGICAL SPECIFICATIONS

MODEL NAME			VD5					
Nominal Diameter	DN	mm	20					
Meter Length	L	mm	190					
Permanent Flowrate	Q3	m³/h	2,5					
Maximum Flowrate	Q4	m³/h	3,125					
Measuring Range Ratio	All Positions		160	200	250	315	400	
Transitional Flowrate			0,025	0,020	0,016	0,013	0,010	
Minimum Flowrate			0,016	0,013	0,010	0,008	0,006	
Temperature Class	T	°C	50					
Transitional Flowrate Ratio	-	-	1,6					
Pressure Drop		bar	0,63					
Maximum Working Pressure		bar	16					
Registration Capacity		m³	99999					
Minimum Reading Resolution		lt	0,05					



GENERAL CHARACTERISTICS

- Precise measurement with volumetric design
- Vacuum mechanism with dust and steam protection
- Protected against magnetic interference
- Suitable for optical reading
- Corrosion resistant brass body
- Electrostatic painted inner and outer surfaces
- All parts are made of materials suitable for contact with water
- 360° rotating and 180° opening lid for easy reading
- Registration capacity 99999 m³
- Long service life with sapphire jewel bearing

DIMENSIONS



Nominal Diameter	DN	20	(3/4 inch)
Length	L	190	mm
Axis Height	H1	38	mm
Total Height	H2	115	mm
Width	W	86	mm
Connection Diameter	A	G 1 B	
Weight		1,2	kg
Package Weight		11	kg
Package Dimensions		47x22x25	cm

ULTRASONIC CALORIMETER (HEAT METER)

CEM
WATER METERS

CM-HR



GENERAL CHARACTERISTICS

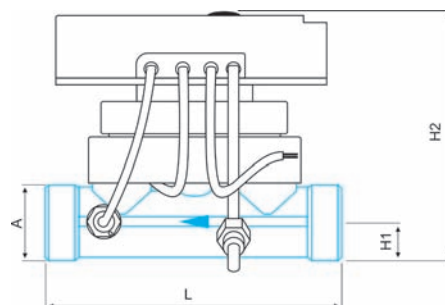
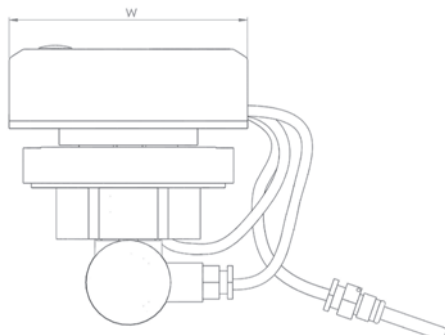
- Easy installation and use
- Ergonomic design
- LCD display unit rotating 350° and separable from the counter
- Possibility of horizontal and vertical installation
- PT1000 calibrated temperature sensors
- 10 years battery life with lithium-ion battery technology
- Heating, Cooling and Heating & Cooling operation modes
- Optical interface, wired or wireless communication with M-Bus protocols
- EN 1434 Directive 2004/22 / EC MID Certificate

METROLOGICAL SPECIFICATIONS

MODEL NAME	KALORİMETRE																															
Nominal Diameter	DN	mm	15		20		25			32		40		50		65		80		100		125		150		200		250		300		
Meter Length	L	mm	110		130 - 190		160		260		180		200		200		200		225		250		350		350		350		400		450	
Permanent Flowrate	Q3	(m³/h)	1,5		2,5		3,5		6		6		10		15		25		40		60		100		150		250		400		600	
Maximum Flowrate	Q4	(m³/h)	3		5		7		12		12		20		30		50		80		120		200		300		500		800		1200	
Minimum Flowrate	Q1	(m³/h)	0,03	0,015	0,05	0,025	0,07	0,035	0,12	0,06	0,12	0,06	0,2	0,1	0,3	0,15	0,5	0,25	0,8	0,4	1,2	0,6	2	1	3	1,5	5	2,5	8	4	12	6
Hassasiyet	R		50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100	50	100
Temperature Class		°C	T4/95																													
Pressure drop		bar	0,63																													
Çalışma Basıncı		bar	16																													
Registration Capacity		(m³/h)	999,999.99												999999999																	
		(kW/h)	99,999.999												999,999.99																	

DIMENSIONS

MODEL NAME			KALORİMETRE														
Nominal Diameter	DN	mm	15	20	25	32	40	50	65	80	100	125	150	200	250	300	
		inch	1/2"	3/4"	1"	1 1/4 "	1 1/2"	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"	
Length	L	mm	110	130	190	160	260	180	200	200	225	250	350	350	400	250	
Axis Height	H1	mm	12	18	20	26	30	80	90	100	110	125	145	170	200	230	
Total Height	H2	mm	210	280	280	300	330	350	370	400	420	500	530	580	650	700	
Connection Diameter	A		G 3/4 B	G 1 B	G 1 1/4 B	G 1 1/2 B	G 2 B	4 - Ø18 -Ø125	4 - Ø18 -Ø145	8 - Ø18 -Ø160	8 - Ø18 -Ø180	8 - Ø18 -Ø210	8 - Ø22 -Ø240	12 - Ø22 -Ø295	12 - Ø26 -Ø355	12 - Ø26 -Ø3410	



DN15-20-25
190 mm

DN32-40
490-530 mm

DN50
570 mm

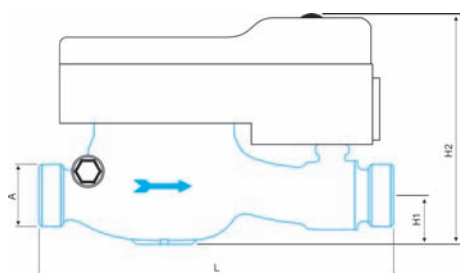

GENERAL CHARACTERISTICS

- Easy use of contactless operation with contactless card
- Reading of the screen even in areas where light is insufficient with high-resolution LCD with backlight
- Electronic circuit with high magnetic field protection
- Operation in reverse or direct water flow
- Supply of water at emergency with Fire Mode
- Detecting, recording, and penalizing upon dismantling from the facility
- Detecting, recording, and penalizing upon opening cover of the meter
- Detecting, recording, and penalizing upon battery removal
- Detecting, recording, and penalizing magnetic field
- 10 years battery life with lithium-ion battery
- Low battery warning
- Real time clock pursuant to RTC IEC 61038
- MID (Measuring Instruments Directive) Certified
- Suitable for remote reading with optional Wireless MBus equipment



METROLOGICAL SPECIFICATIONS

MODEL NAME	PRE-PAID																										
Nominal Diameter	DN	mm	15				20					25				32			40			50					
Meter Length	L	mm	190				190					320				490			530			570					
Permanent Flowrate	Q3	(m³/h)	2,5				2,5			4		6,3				10			16			25					
Maximum Flowrate	Q4	(m³/h)	3,125				3,125			5		7,875				12,5			20			31,25					
Transitional Flowrate	Q2	(m³/h)	0,04	0,032	0,025	0,04	0,032	0,025	0,064	0,051	0,04	0,101	0,0806	0,063	0,2	0,13	0,1	0,26	0,2	0,16	0,4	0,32	0,25				
Minimum Flowrate	Q1	(m³/h)	0,025	0,02	0,016	0,025	0,02	0,016	0,04	0,032	0,025	0,063	0,0504	0,039375	0,1	0,08	0,0625	0,16	0,13	0,1	0,25	0,2	0,15625				
First Motion Flow	Qs	(m³/h)	8	7	5	8	7	5																			
Adjustment	R		100	125	160	100	125	160	100	125	160	100	125	160	100	125	160	100	125	160	100	125	160				
Temperature Class		°C	T50																								
Pressure Drop		bar	0,63																								
Maximum Working Pressure		bar	16 bar																								
Registration Capacity		(m³/h)	99999																								



DIMENSIONS



MODEL NAME	PRE-PAID							
Nominal Diameter	DN	mm	15	20	25	32	40	50
		inch	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Length	L	mm	190	190	320	490	530	570
Axis Height	H1	mm	26	26	20	26	30	80
Total Height	H2	mm	120	120	230	230	230	230
Connection Diameter	A		G 3/4 B	G 1 B	G 1 1/4 B	G 1 1/2 B	G 2 B	4 - Ø18 -Ø125

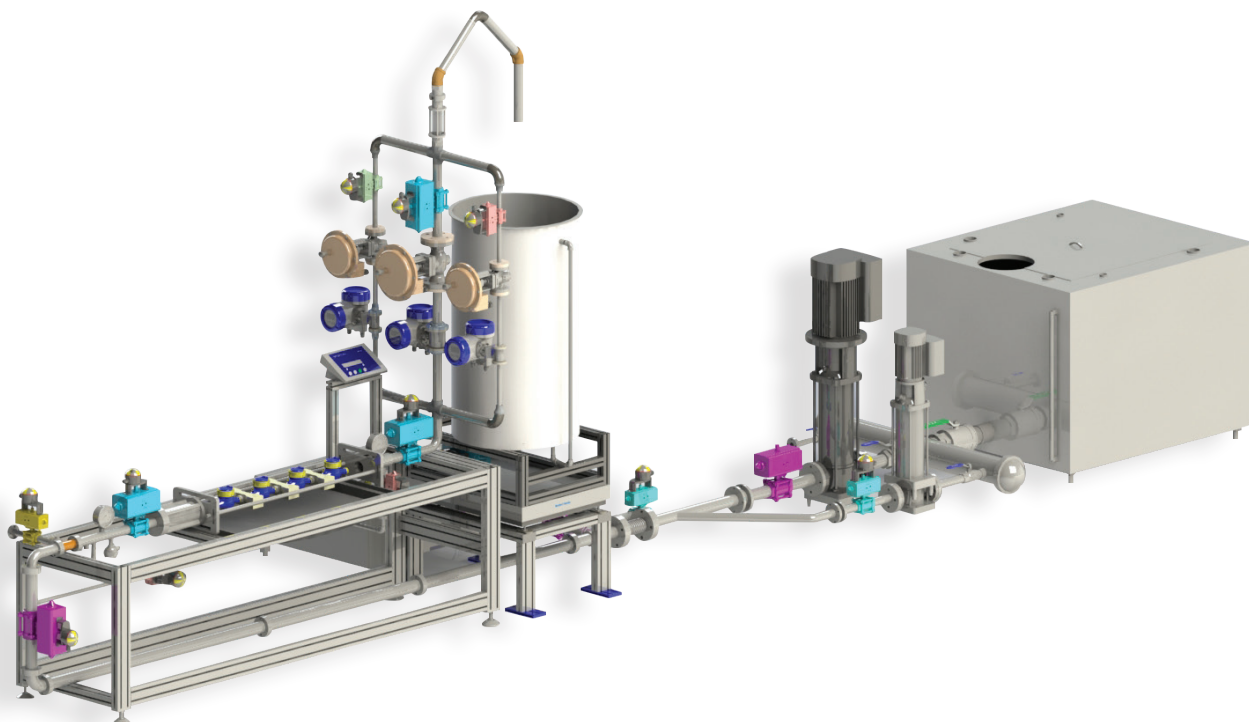


M-BUS



METROLOGICAL SPECIFICATIONS

Housing	Gri, ABS plastic 200x150x75 mm
Protective Class	IP 52
Operating Voltage	220 VAC
Power Consumption	Max. 100W
Operating Temperature Range	-20 , +70
Power Socket	Avrupa Tipi, 2 metre
M-Bus Voltage	42 V (Mark), 28V (Space)
M-Bus Basic Current	Max. 375 mA
Overcurrent Threshold	> 500 mA
Led Status Indicators	Power, RX , TX , Overload, M-Bus Short Circuit
Slave Number	Maximum 250 (1.5 mA * 250 Slave)
Standart	EN 13757 (M-Bus)
Baudrate	300 ... 38400
Protection	Overcurrent and short-circuit
	7/24 Elektrikte çalışabilme
Galvanic Isolation	Galvanic isolation of all interfaces from M-Bus and power supply.
Interfaces	1 x RS232C with DSUB9 socket (FTDI)
Interfaces	1x USB 2.0 with B type socket
	Transparent level converting
Terminals	3 pairs screw terminals for M-Bus
Cable Glands	For power supply
Maximum cable length for recommended cable type JYSTY 1 x 2 x 0,8 mm	Total (all wires): 1km (9600 baud), 4km (2400 baud), 10km (300 baud) Max. distance to slave (250 slaves at the end of the cable): 350 m Max. distance to slave (250 slaves equally distributed): 900 m



METROLOGICAL SPECIFICATIONS

Measuring System	Gravimetric				
Usage Areas	Optionally, it water meter production companies, water management systems and controls are suitable for laboratory work.				
Water Meter Capacity	Optional; It is designed to cover all diameters from DN15 to DN40 or to serve only the diameters required by the customer.				
Water Meter Pcs and Lengths (max)	DN15	DN20	DN25	DN32	DN40
	110/165 mm	110/190 mm	260 mm	260 mm	300 mm
	10 Pcs	10 Pcs	3 Pcs	3 Pcs	2 Pcs
	These quantities may vary depending on the area of use and the meter capacity.				
Flow Range	Optionally, it is tested in all flow rates from 0.006 m ³ / h to 20 m ³ / h.				
Operating Pressure	Working pressure can be changed according to desired test flow and pressure. Maximum test pressure is 16 bar.				
Scale Capacity	Max 300 kg				
Measurement Resolutions	2 gr				
Reading System	In line with customer demand, suitable for optical or visual reading				
Measuring Areas	The pressure and temperature of the water tested can be measured mechanically or electronically.				



This image shows a full page of a worksheet designed for handwriting practice. It consists of approximately 20 horizontal dashed lines spaced evenly across the page, providing a guide for letter height and placement. The background is plain white, and there are no other markings or text present.

CEM[®] WATER METERS



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