

WT4300E Electromagnetic Flowmeter

CATALOG



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WT-4300E Series에 대해서

2주파역자방식의 특징을 최대한 장점을 살려 액체의 유속을 정확하게 측정하여 사용할 수가 있으며, 특히 액체에서 $5\mu\text{s}/\text{cm}$ 이상의 도전율이 있는 무기물 슬러지와 제지슬러지, 하.폐수, 약품등에 사용할 수가 있습니다.
WT4300E의 일체형은 신호변환기와 Primary가 일체되어 있는 Compact Design의 유량 측정시스템이고, WT4300E분리형은 변환기와 유량계 Primary가 분리되어 간편하게 사용할 수 있는 유량측정시스템입니다.



적용

- 상수, 하수, 오.폐수
- 식품
- 제약
- 화학
- Dosing & Batching



신호 변환기 WT 4300 기술사양

형태	일체형, 분리형
전원	AC100-230V 60Hz 14VA, DC16.8-31.2V Ripple 5%
정확도	$\pm 0.5\%$ of rate
재현성	$\pm 0.5\%$ of rate
유속범위	0.5 - 10 m/s
전도도	Min. 5 micro S/cm
유체흐름방향	Bi-direction
화면표시	2*16 character full graphic LCD dot matrix display 일체형 일때는 신호변환기 90도 회전가능 유체방향 정,역 유량측정 가능 유속,순간유량,Total유량, 전류출력치
프로그래밍	3 Keypad buttons
인터페이스	RS232 or RS485 for measuring values
전류출력	DC4-20mA load 600 ohm 이하
펄스출력	1.3KHz active or passive optocoupler
상태출력	High / Low alarms
저유량 cut off	0-20%
외함재질	Aluminium die cast
방수등급	IP67, IP68(only for remote type)
케이블 글랜드	Only remote 10m (max. 50m)
주위온도	-20°C to +60°C

2주파 여자 방식이란

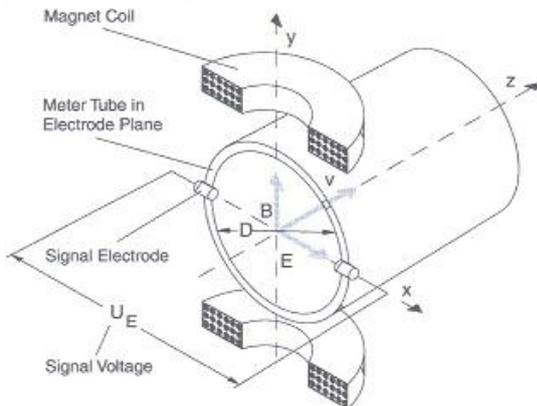
전자유량계의 여자주파를 낮게 하면 Zero점이 안정되나 주파수 Noise에는 약해진다. 또한 높이면 반대로 저주파에 Noise에 강하나 Zero점의 안전성이 저하되는 관계가 있다. 이 상반되는 문제를 새로운 여자방식과 신호 샘플링 방식으로 해결할 제품이 개발되었다. 이 여자파형은 저주파의 구형파에 고주파의 구형파를 중첩한 것이다. 이 여자의 신호에서 얻어지는 신호에서 2종류의 신호가 얻어지도록 되는것을 2주파 여자방식이라 한다.

특징

- ◆출력은 용적 유량계 대해 직선적이다.
- ◆정밀도가 지시치의 $\pm 0.5\%$ (입력이 20% 이상에서)로 고 정도이다.
- ◆유체의 압력, 온도, 밀도, 점도의 영향을 받지 않는다.
- ◆관로에는 돌출물이 없고, 내면에는 Lining 되어 유체중에 고형물 부착 정도가 적다.
- ◆측정은 전기적으로 행하여지며, 기계적 가동부가 없어서 고장율이 적다.
- ◆유속 분포의 영향을 받지 않는 자계 설계를 하였기 때문에 고 정도 유량지시를 얻는다.
- ◆유체와 접촉하는 부분은 Lining과 전극뿐이어서 부식성 유체를 측정할 수가 있다.
- ◆유체에 다소의 기포나 고형물이 들어 있어도 측정하는데 이상이 없어 슬러지 유체의 측정이 가능하다.
- ◆유량 Zero에서 측정할 수가 있기 때문에 유량 범위가 넓고 미소구경부터 대 구경까지 동일한 원리로 제품화 하고 있다.

측정원리

전자유량계의 동작원리는 도체가 자장을 통하여 직각으로 이동할 때 도체를 가로질러 유도된 전압은 그 도체의 속도에 비례한다는 페리데이의 유도법칙에 기초를 두고 있다. 유체 내에서 유도된 전압은 매개물의 흐름 방향과 자장의 흐름 방향에 수직으로 서로 정 반대관에 부착된 두개의 전극에 의해 검출됩니다. 이 유도된 전압 "E"는 자장길이 B와 유량계의 배관직경 D(두 전극간에 직선거리) 그리고 유속 V에 비례한다. 자장길이 B와 유량계의 배관직경 D를 고정 값으로 생각하면 유도전압 "E"와 평균유속 V가 비례한다는 것을 볼수가 있다. Volumetric flow rate(유량체적측정치)Qv의 계산식은 전압 Es는 직선적이고 체적 측정치에 비례한다는 것을 볼수가 있다.



- UE : 유도된 전극 전압
- B : 자계 길이
- D : 유량계 배관 직경(두 전극간의 직선거리)
- v : 평균 유속
- Qv : 유량 체적 측정치

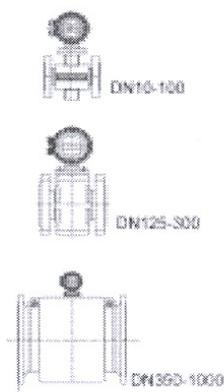
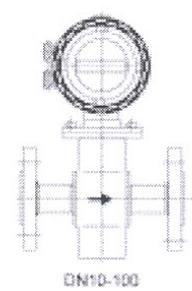
U_E = Signal voltage
 B = Magnetic induction
 D = Electrode spacing
 v = Average flow velocity
 q_v = Volume flowrate

$$U_E = B \cdot D \cdot v$$

$$q_v = \frac{D^2 \pi}{4} \cdot v$$

$$U_E \sim q_v$$

WT4300E Integral Type Overview

				
	fixed Flange	Wafer Design	fixed Flange	Wafer Design
Housing Material	Aluminum and Carbon Steel Housing Series 4000		Stainless Housing Series 2000	

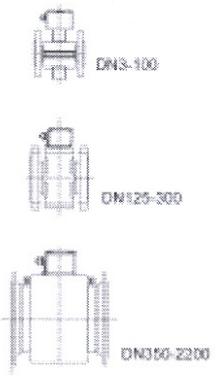
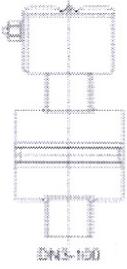
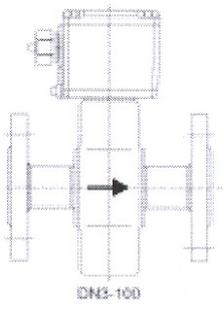
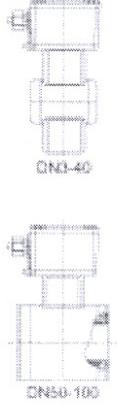
Primary

Model	DE43F	DE43W	DE23F	DE23W
Accuracy	0.5% of rate			
Size(mm)	DN3-DN1000	DN3-DN100	DN3-DN100	DN3-DN100
Pressure class(MPa)	1.0-4.0 (According to size)	1.0-4.0 (According to size)	1.0-4.0 (According to size)	1.0-4.0 (According to size)
Liner	Rubber, PTFE, PFA It is available on ordering	PFA It is available on ordering	PFA It is available on ordering	PFA It is available on ordering
Conductivity	>5 μ S/cm			
Electrodes	Stainless Steel 0Cr18Ni12Mo2Ti, HastelloyB2/C4, Platinum-Iridium, Ta, Ti			
Protection Class	IP67			
Fluid Temperature	-25 ~ +130°C (rubber liner < 65°C)	-25 ~ +130°C	-40 ~ +130°C	-40 ~ +130°C

Converter

Supply Power	85-253V AC/16.8-26.4V AC/16.8-31.2V DC
Current Output	0/2-10mA, 0-5mA, 0/4-20mA, 0/4-10/12-20mA
Pulse Output	Active 24VDC pulse or passive optocoupler
Data Transfer	RS485 (Option)
Ext. Zero Return	Optocoupler Input
Ext. Totallizer Reset	Optocoupler Input
Forward/Reverse Metering	Signal over optocoupler output
Self Monitor	Yes
Local Display/Totalization	Yes
Housing	Aluminum(Standard), Stainless Steel(Optional)
Communication	ASCII-Protocol

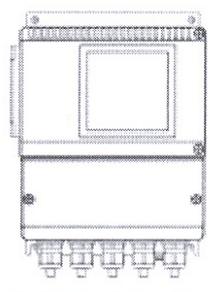
WT4300E Remote Type Overview

				
	Fix flange	Wafer design	Fix flange	Wafer design
Housing Material	Aluminum and Carbon Steel Housing Series 4000		Stainless Housing Series 2000	

Primary

Model	DE41F	DE41W	DE21F	DE21W
Accuracy	0.5% of rate			
Size(mm)	DN10-DN1000	DN10-DN100	DN10-DN100	DN10-DN100
Pressure class(MPa)	1.0-4.0 (According to size)	1.0-4.0 (According to size)	1.0-4.0 (According to size)	1.0-4.0 (According to size)
Liner	Rubber, PTFE, PFA It is available on ordering	PFA It is available on ordering	PFA It is available on ordering	PFA It is available on ordering
Conductivity	>5 μ S/cm			
Electrodes	Stainless Steel 0Cr18Ni12Mo2Ti, HastelloyB2/C4, Platinum-Iridium, Ta, Ti			
Protection Class	IP67,IP68(Option)	IP67,IP68(Option)	IP67,IP68(Option)	IP67,IP68(Option)
Fluid Temperature	-25 ~ +130°C (rubber liner \leq 65°C)	-25 ~ +130°C	-40 ~ +130°C	-40 ~ +130°C

Converter

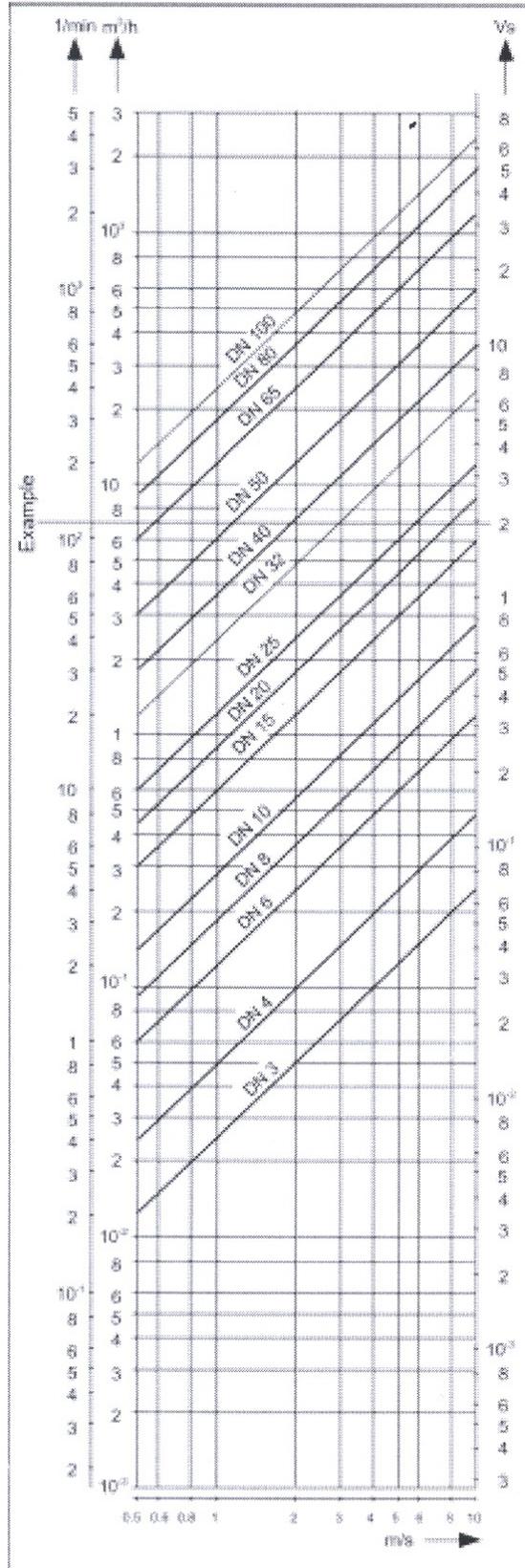
Supply Power	85-253V AC/16.8-26.4V AC/16.8-31.2V DC	
Current Output	0/2-10mA, 0-5mA, 0/4-20mA, 0/4-10/12-20mA	
Pulse Output	Active 24VDC pulse or passive optocoupler	
Data Transfer	RS485 (Option)	
Ext. Zero Return	Optocoupler Input	
Ext. Totallizer Reset	Optocoupler Input	
Forward/Reverse Metering	Signal Over Optocoupler Output	
Self Monitor	Yes	
Local Display/Totalization	Yes	
Housing	Field Mount Housing	
Communication	ASCII-Protocol	

유속 대비 유량 비교표

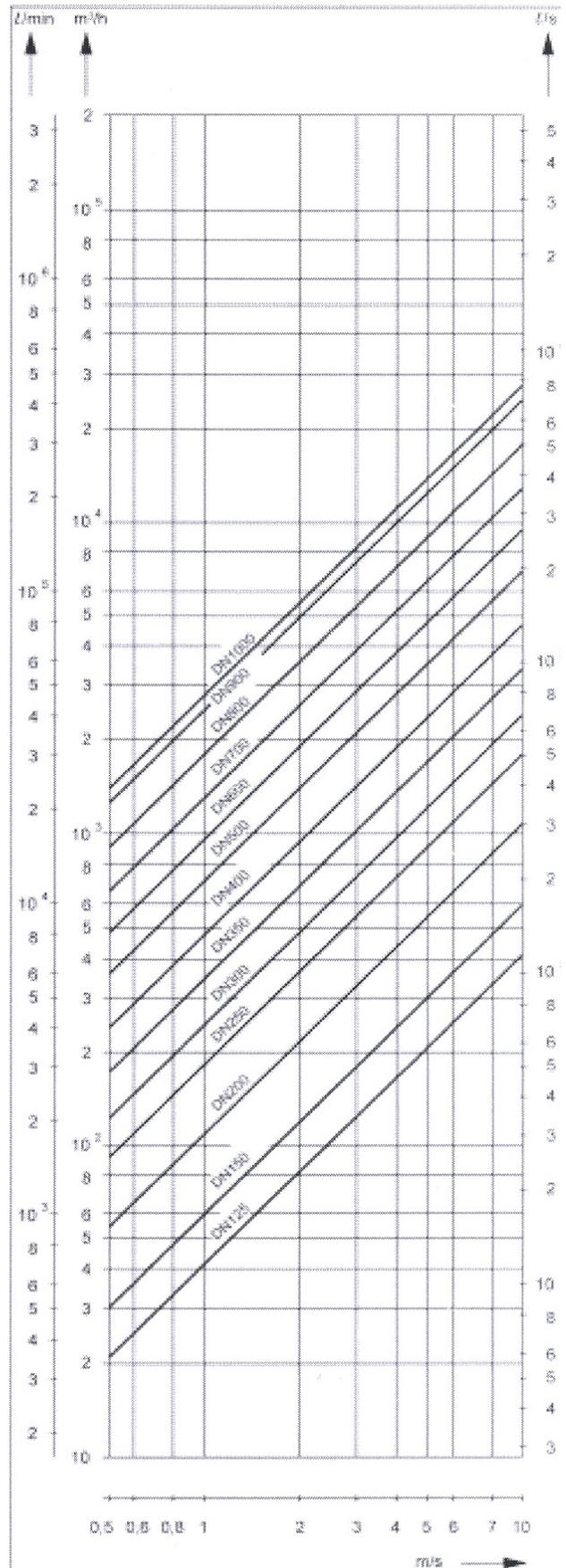
Meter Size DN	Std.Press. Rating MPa	Min.Flow Range Flow Velocity 0 to 0.5m/s	Max.Flow Range Flow Velocity 0 to 10m/s
10	4.0	0 - 2.25 l/min	0 - 45 l/min
15	4.0	0 - 5 l/min	0 - 100 l/min
20	4.0	0 - 7.5 l/min	0 - 150 l/min
25	4.0	0 - 10 l/min	0 - 200 l/min
32	4.0	0 - 20 l/min	0 - 400 l/min
40	4.0	0 - 30 l/min	0 - 600 l/min
50	4.0	0 - 3 m ³ /h	0 - 60 m ³ /h
65	4.0	0 - 6 m ³ /h	0 - 120 m ³ /h
80	4.0	0 - 9 m ³ /h	0 - 180 m ³ /h
100	1.6	0 - 12 m ³ /h	0 - 240 m ³ /h
125	1.6	0 - 21 m ³ /h	0 - 420 m ³ /h
150	1.6	0 - 30 m ³ /h	0 - 600 m ³ /h
200	1.0/1.6	0 - 54 m ³ /h	0 - 1080 m ³ /h
250	1.0/1.6	0 - 90 m ³ /h	0 - 1800 m ³ /h
300	1.0/1.6	0 - 120 m ³ /h	0 - 2400 m ³ /h
350	1.0/1.6	0 - 165 m ³ /h	0 - 3300 m ³ /h
400	1.0/1.6	0 - 225 m ³ /h	0 - 4500 m ³ /h
500	1.0	0 - 330 m ³ /h	0 - 6600 m ³ /h
600	1.0	0 - 480 m ³ /h	0 - 9600 m ³ /h
700	1.0	0 - 660 m ³ /h	0 - 13200 m ³ /h
800	1.0	0 - 900 m ³ /h	0 - 18000 m ³ /h
900	1.0	0 - 1200 m ³ /h	0 - 24000 m ³ /h
1000	1.0	0 - 1350 m ³ /h	0 - 27000 m ³ /h

Example:

Flowrate = 7 m³/h (maximum value = flow range end value). Suitable are flowmeter primary sizes DN20 ~ DN65 for flow velocities between 0.5 and 10 m/s.



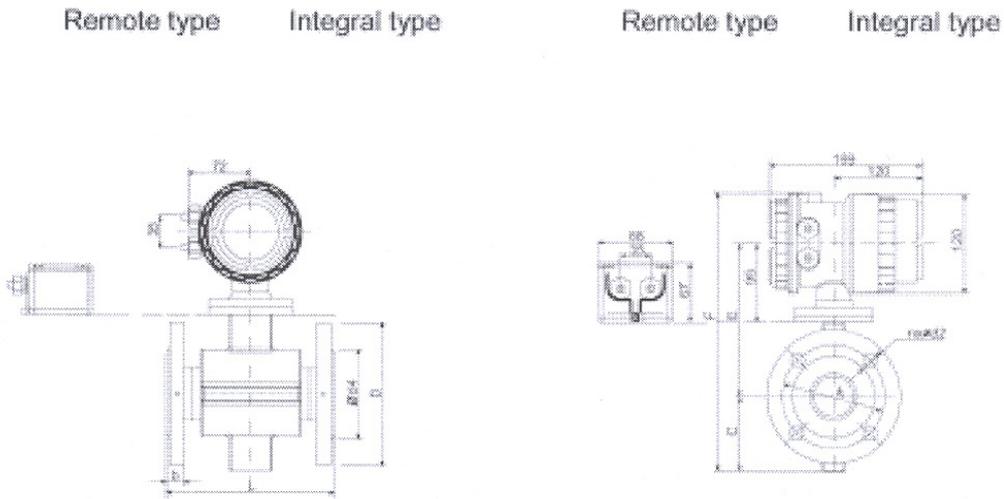
Flow Range Nomograph DN3-DN100



Flow Range Nomograph DN125-DN1000

External Dimensions

Flowmeter Primary(DN10-DN100)Flange Type
Model DE41/43F

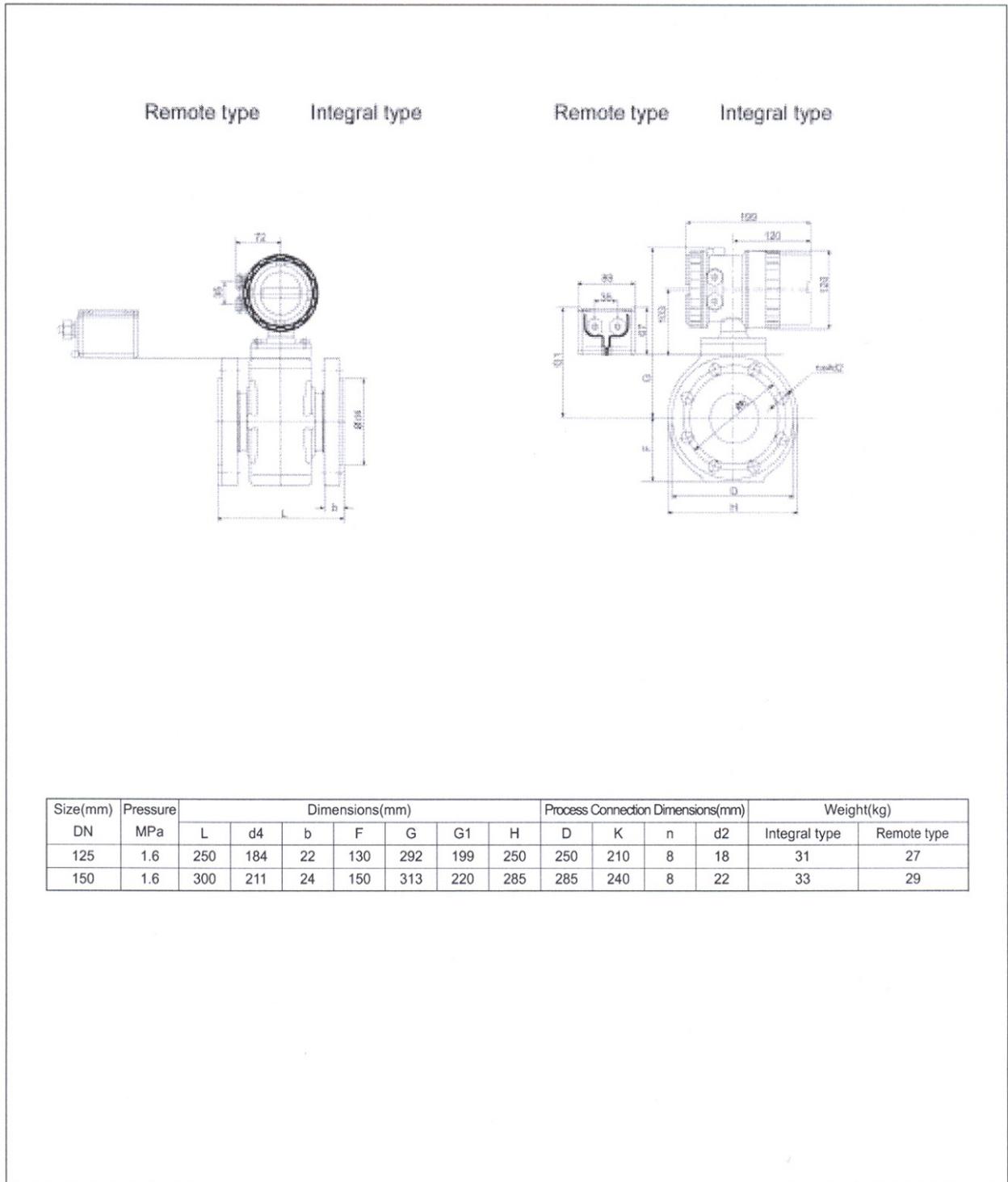


Size(mm) DN	Pressure MPa	Dimensions(mm)						Process Connection Dimensions(mm)				Weight(kg)	
		L	d4	b	C	E	F	D	K	n	d2	Integral type	Remote type
10	4.0	200	41	14	62	157	281	90	60	4	14	5.5	4.5
15	4.0	200	46	14	62	157	281	95	65	4	14	5.5	4.5
20	4.0	200	56	16	73	168	292	105	75	4	14	6	5
25	4.0	200	65	16	73	168	292	115	85	4	14	6.5	5.5
32	4.0	200	76	18	78	173	297	140	100	4	18	8	7
40	4.0	200	84	18	82	177	301	150	110	4	18	8.5	7.5
50	4.0	200	99	20	90	185	337	165	125	4	18	11	9
65	4.0	200	118	22	104	199	365	185	145	8	18	16	13
80	4.0	200	132	24	110	205	377	200	160	8	18	19	16
100	1.6	250	156	22	130	225	417	220	180	8	18	20	17

(DN10-DN100) Flange Type DE41/43F Dimensions

External Dimensions

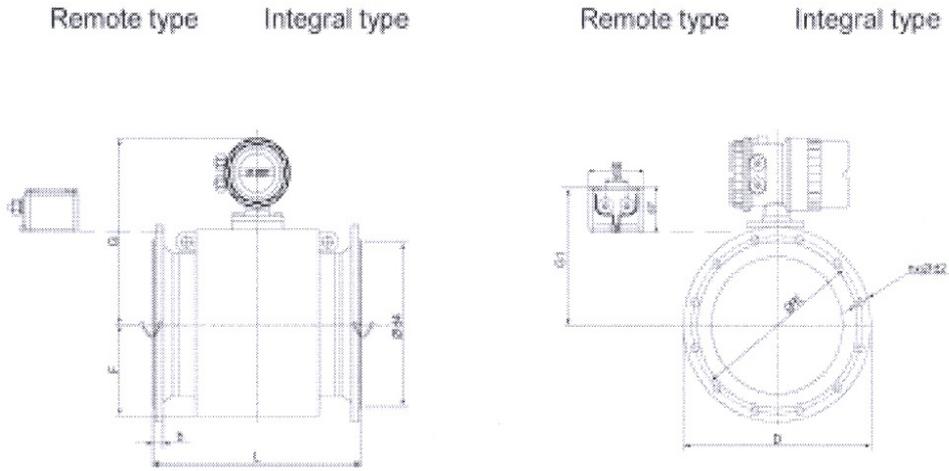
Flowmeter Primary(DN125-DN150)Flange Type
Model DE41/43F



(DN125-DN150) Flange Type DE41/43F Dimensions

External Dimensions

Flowmeter Primary(DN200-DN1000)Flange Type
Model DE41/43F

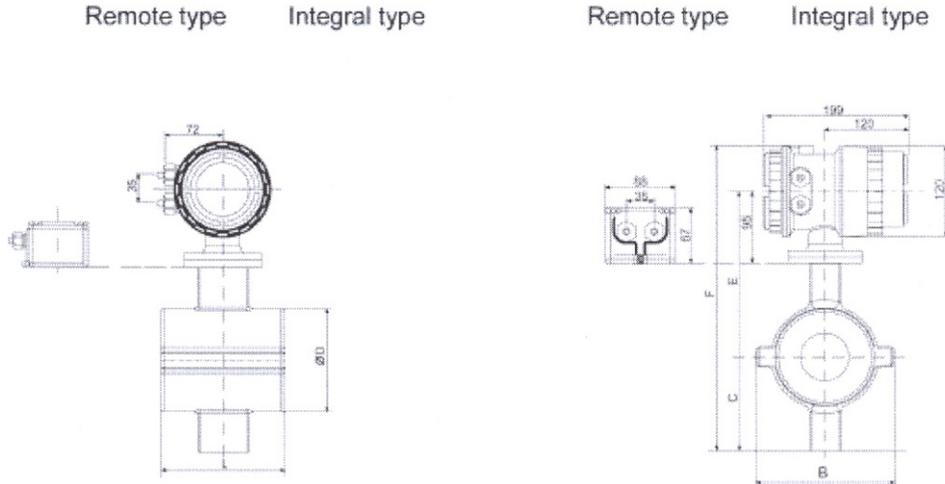


Size(mm) DN	Pressure MPa	Dimensions(mm)						Process Connection Dimensions(mm)				Weight(kg)	
		L	d4	b	F	G	G1	D	K	n	d2	Integral type	Remote type
200	1.0	350	266	24	179	344	251	340	295	8	22	55	53
200	1.6	350	266	24	179	344	251	340	295	12	22	55	53
250	1.0	450	319	26	206	386	297	405	350	12	22	81	79
250	1.6	450	319	26	206	386	297	405	355	12	26	81	79
300	1.0	500	370	28	250	415	322	512	400	12	22	86	81
300	1.6	500	370	28	250	415	322	512	410	12	26	86	81
350	1.0	500	429	26	250	430	341	505	460	16	22	131	126
350	1.6	500	429	30	250	430	341	520	470	16	26	145	140
400	1.0	600	480	26	275	456	367	565	515	16	26	160	155
400	1.6	600	480	32	275	456	367	580	525	16	30	180	175
450	1.0	600	532	28	300	480	392	615	565	20	26	178	173
450	1.6	600	532	34	300	480	392	640	585	20	30	200	195
500	1.0	600	582	28	310	492	403	670	620	20	26	196	191
500	1.6	600	609	34	310	492	403	715	650	20	33	220	225
600	1.0	600	682	30	362	543	454	780	725	20	30	230	225
600	1.6	700	720	36	362	543	454	840	770	20	36	300	292
700	1.0	700	794	30	415	595	495	895	840	24	30	319	315
700	1.6	700	794	36	415	595	495	910	840	24	36	387	383
800	1.0	800	901	32	465	645	545	1015	950	24	33	370	365
800	1.6	800	901	42	465	645	545	1025	950	24	39	435	430
900	1.0	900	1001	34	515	695	595	1115	1050	28	33	443	438
900	1.6	900	1001	44	515	695	595	1125	1050	28	39	545	540
1000	1.0	1000	1112	34	565	745	645	1230	1160	28	36	525	520
1000	1.6	1000	1112	46	565	745	645	1255	1170	28	42	725	720

(DN200-DN1000) Flange Type DE41/43F Dimensions

External Dimensions

Flowmeter Primary(DN10-DN100)Wafer Type
Model DE41/43W



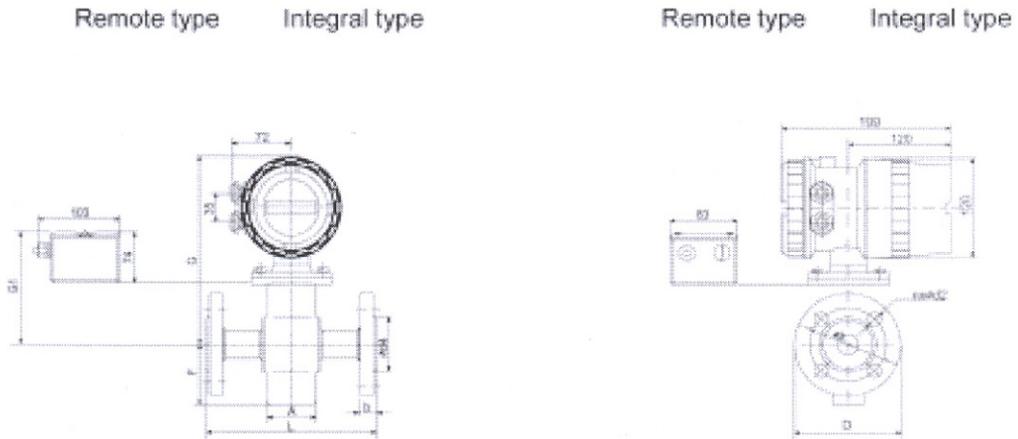
Size(mm) DN	Pressure MPa	Dimensions(mm)						Weight(kg)	
		L	B	C	D	E	F	Integral type	Remote type
10	4.0	69	75	62	45	157	281	3	2
15	4.0	69	75	62	45	157	281	3	2
25	4.0	91	95	73	63	168	292	4.5	3.5
32	4.0	99	103	78	73	173	297	5	4
40	4.0	104	112	82	82	177	301	6	5
50	4.0	119	130	90	100	185	337	6.5	5.5
65	4.0	103	146	104	116	199	365	8	7
80	4.0	103	163	110	133	205	377	9	8
100	1.6	133	190	130	160	225	417	10	9

(DN10-DN100) Wafer Type DE41/43W Dimensions

External Dimensions

Flowmeter Primary(DN10-DN40)Flange Type

Model DE21/23F



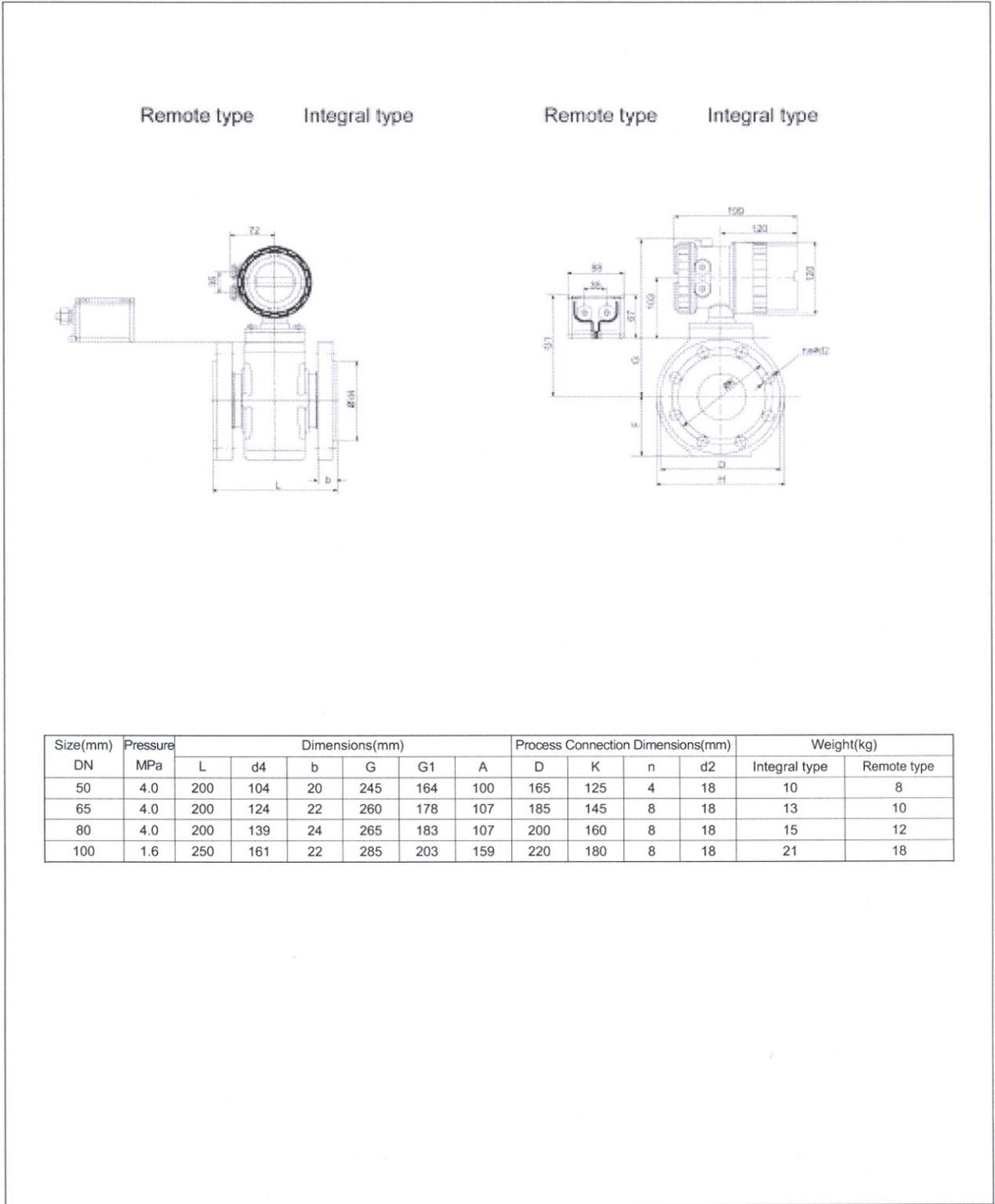
Size(mm) DN	Pressure MPa	Dimensions(mm)							Process Connection Dimensions(mm)				Weight(kg)	
		L	d4	b	F	G	G1	A	D	K	n	d2	Integral type	Remote type
10	4.0	200	41	14	63	219	133	37	90	60	4	14	3	2
15	4.0	200	46	14	63	219	133	37	95	65	4	14	3	2
20	4.0	200	56	16	66	223	137	42	105	75	4	14	4.5	3.5
25	4.0	200	65	16	73	230	144	54	115	85	4	14	5	4
32	4.0	200	76	18	78	235	149	62	140	100	4	18	6	5
40	4.0	200	84	18	82	239	153	67	150	110	4	18	6.5	5.5

(DN10-DN40) Flange Type DE21/23F Dimensions

External Dimensions

Flowmeter Primary(DN50-DN100)Flange Type

Model DE21/23F

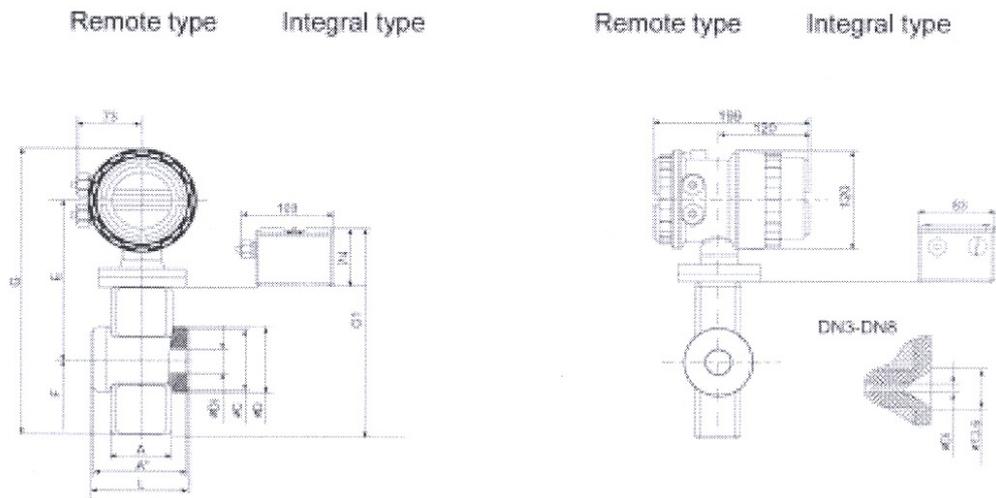


(DN50-DN100) Flange Type DE21/23F Dimensions

External Dimensions

Flowmeter Primary(DN10-DN40)Wafer Type

Model DE21/23W

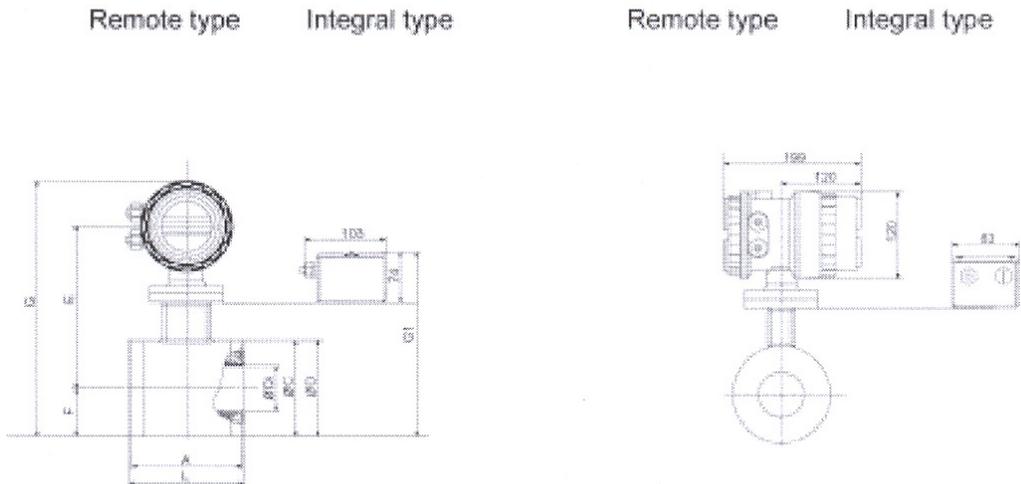


Size(mm) DN	Pressure MPa	Dimensions(mm)										Weight(kg)	
		L	A*	A	C	Di	D	E	F	G	G1	Integral type	Remote type
10	4.0	68	64	37	42	10	45	157	62	281	198	3.5	1.5
15	4.0					13							
20	4.0	78	74	42	50	18	54	161	66	289	206	4	1.5
25	4.0	90	86	54	59	24	63	168	73	303	220	4.5	2
32	4.0	98	94	62	69	30	73	173	78	313	230	4.5	2.5
40	4.0	103	99	67	77	36	82	177	82	321	238	5	3

(DN10-DN40) Wafer Type DE21/23W Dimensions

External Dimensions

Flowmeter Primary(DN50-DN100)Wafer Type
Model DE21/23W



Size(mm) DN	Pressure MPa	Dimensions(mm)									Weight(kg)	
		L	A	C	Di	D	E	F	G	G1	Integral type	Remote type
50	4.0	117	112	95	47	100	185	50	297	214	6.5	4
65	4.0	103	99	111	62	116	199	58	319	236	7	4.5
80	4.0	103	99	128	74	133	205	66.5	334	251	8.5	6.5
100	1.6	133	129	155	96	160	225	80	367	284	11	8.5

(DN50-DN100) Wafer Type DE21/23W Dimensions

Note:

1. The above dimensions for WT4300E Integral type are for the design with an investment cast Aluminum.
Converter housing dimensions for stainless steel converter housing see Fig.15
2. Dimensions b is flange thickness, Don't include thickness of liner sealed surface.
3. If one ground plate is installed, the dimension L increases 3mm.
4. If two ground plate is installed, the dimension L increases 6mm.

Stainless Steel Converter Dimensions

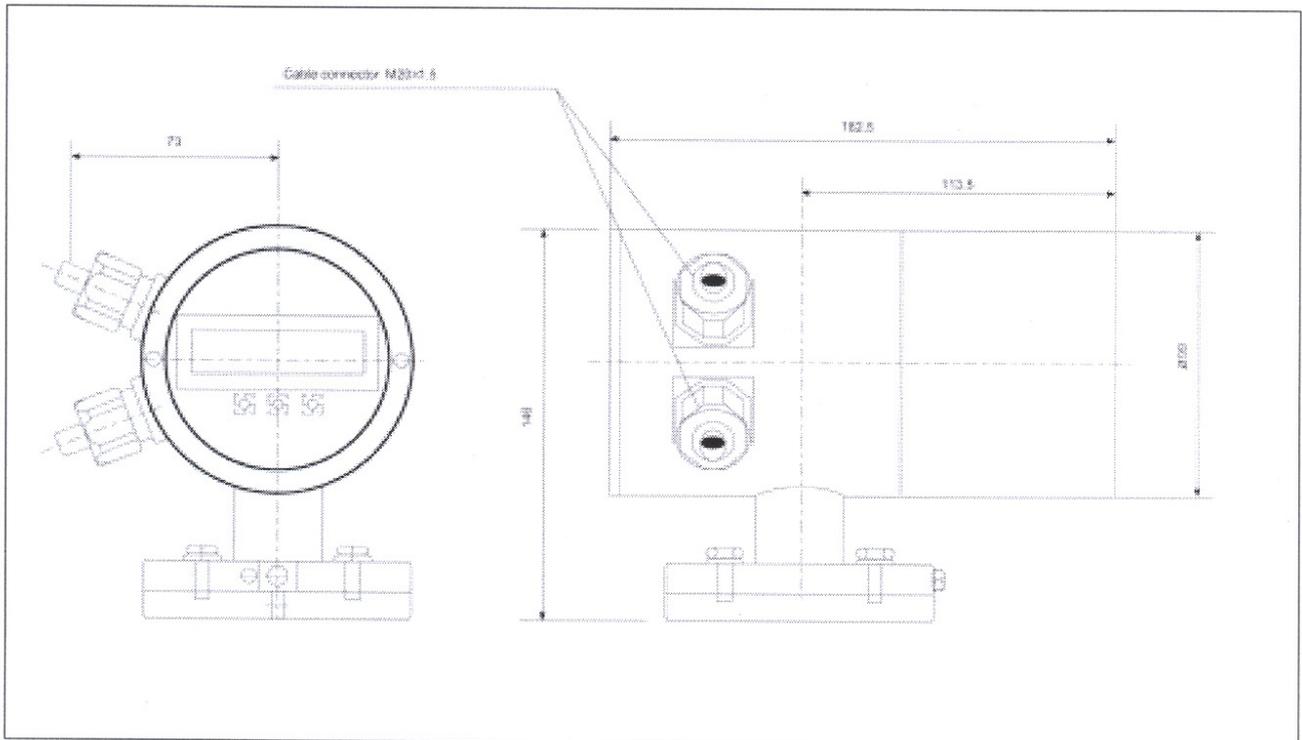
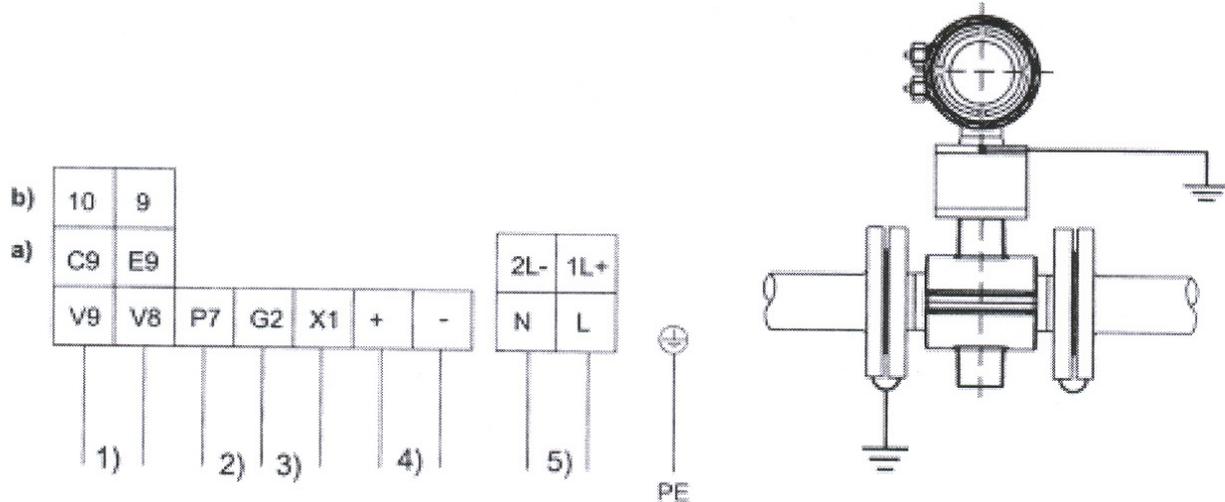


Fig.15 Dimensions Stainless Steel Converter

Interconnection Diagram for WT4300E Integral Type

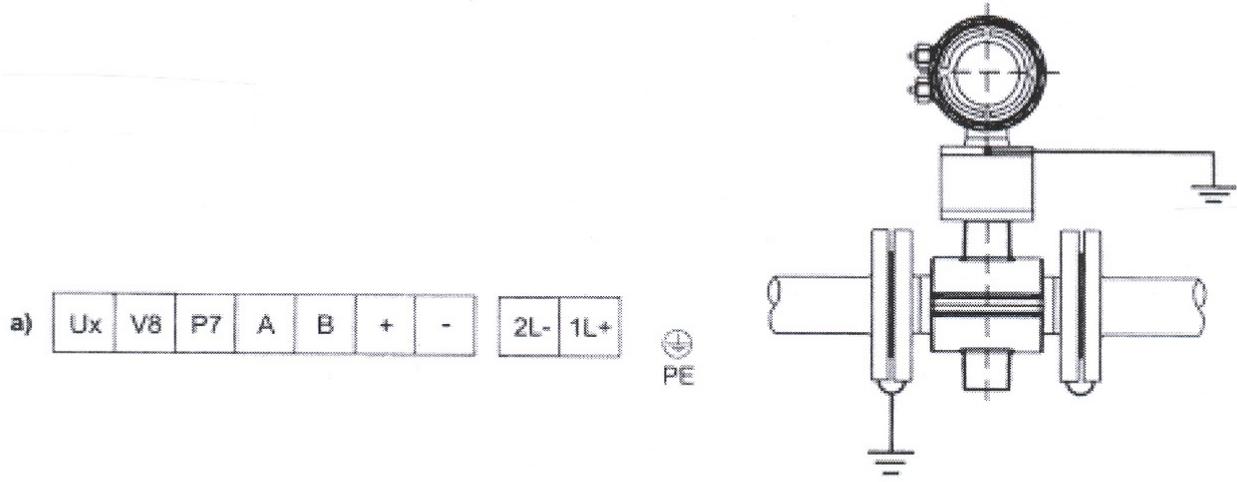
Analog



- 1) a) Scaled Pulse Output, passive, Pulse width adjustable between 0.1 ms and 2000 ms.
Terminals: V8, V9, Function E9, C9
Optocoupler specifications:
 $f_{max} 1.3 \text{ kHz}$
 $0 \text{ V} \leq U_{CEL} \leq 2 \text{ V}, 16 \text{ V} \leq U_{CEH} \leq 30 \text{ V}$
 $0 \text{ mA} \leq I_{CEH} \leq 0.2 \text{ mA}, 2 \text{ mA} \leq I_{CEL} \leq 220 \text{ mA}$
- b) Scaled Pulse Output, active Pulse width adjustable between 0.1 ms and 2000 ms.
Terminals: V8, V9, Function 9, 10
 $20 \text{ mA} \leq I \leq 150 \text{ mA}; f_{max} \leq 4 \text{ Hz}, \text{ pulse width} \leq 50 \text{ ms}, \text{ pulse T16V} \leq 25 \text{ ms},$
 $16 \text{ V} \leq U \leq 30 \text{ V}; \text{ on/off ratio } 1:4 (\text{Ton} : \text{Toff}),$
 $f_{max} 1.3 \text{ kHz}, 2 \text{ mA} \leq I \leq 20 \text{ mA}; 16 \text{ V} \leq U \leq 30 \text{ V}$
- 2) **Contact output**, Function assigned in the software as: System Monitor, Empty Pipe, Max.-Min.-Alarm or F/R signal, Terminals G2, P7.
Optocoupler specifications:
 $0 \text{ V} \leq U_{CEL} \leq 2 \text{ V}, 16 \text{ V} \leq U_{CEH} \leq 30 \text{ V}$
 $0 \text{ mA} \leq I_{CEH} \leq 0.2 \text{ mA}, 2 \text{ mA} \leq I_{CEL} \leq 220 \text{ mA}$
- 3) **Contact Input**, Function assigned in the software as: external Zero Return or external Totalizer Reset.
Terminals: G2, X1.
Optocoupler specifications:
 $16 \text{ V} \leq U \leq 30 \text{ V}, R_i = 2 \text{ k} \Omega$
- 4) **Current Output**, selectable, Terminals: +/-,
 $0/4\text{-}20 \text{ mA}, \text{ load} \leq 600 \Omega;$
 $0/2\text{-}10 \text{ mA}, \text{ load} \leq 1200 \Omega;$
 $0\text{-}5 \text{ mA}, \text{ load} \leq 2400 \Omega;$
- 5) **Supply Power**, see Name plate

*) The default factory setting is the Forward direction signal.

Interconnection Diagram for WT4300E Integral Type Digital Communication



Design a)

Terminals: Ux, V8

Scaled Pulse Output, passive (Optocoupler), Pulse width adjustable between 0.1ms and 2000ms.

Optocoupler specifications: f_{max} 1.3 kHz

$0\text{ V} \leq U_{CEL} \leq 2\text{ V}$, $16\text{ V} \leq U_{CEH} \leq 30\text{ V}$

$0\text{ mA} \leq I_{CEH} \leq 0.2\text{ mA}$, $2\text{ mA} \leq I_{CEL} \leq 220\text{ mA}$

Terminals: Ux, P7

Contact output, Function assigned in the software as: System monitor, Max.-Min.-Alarm or F/R signal

Optocoupler specifications:

$0\text{ V} \leq U_{CEL} \leq 2\text{ V}$, $16\text{ V} \leq U_{CEH} \leq 30\text{ V}$

$0\text{ mA} \leq I_{CEH} \leq 0.2\text{ mA}$, $2\text{ mA} \leq I_{CEL} \leq 220\text{ mA}$

Current Output, Terminals: +/-; load $\leq 600\ \Omega$ for 4-20 mA

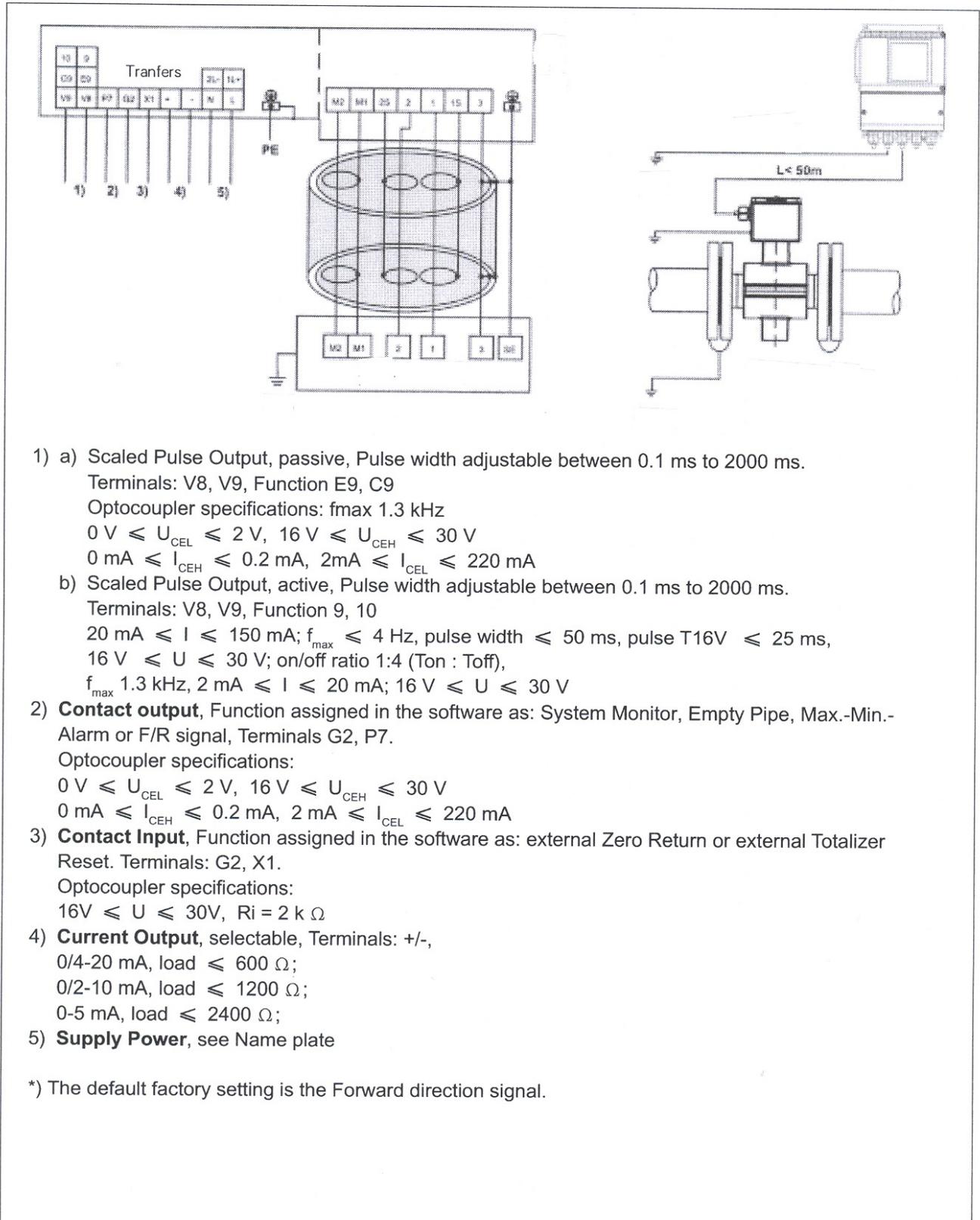
Terminals: A, B

Serial Data Link RS485 for communication using ASC II -Protocol

Supply power

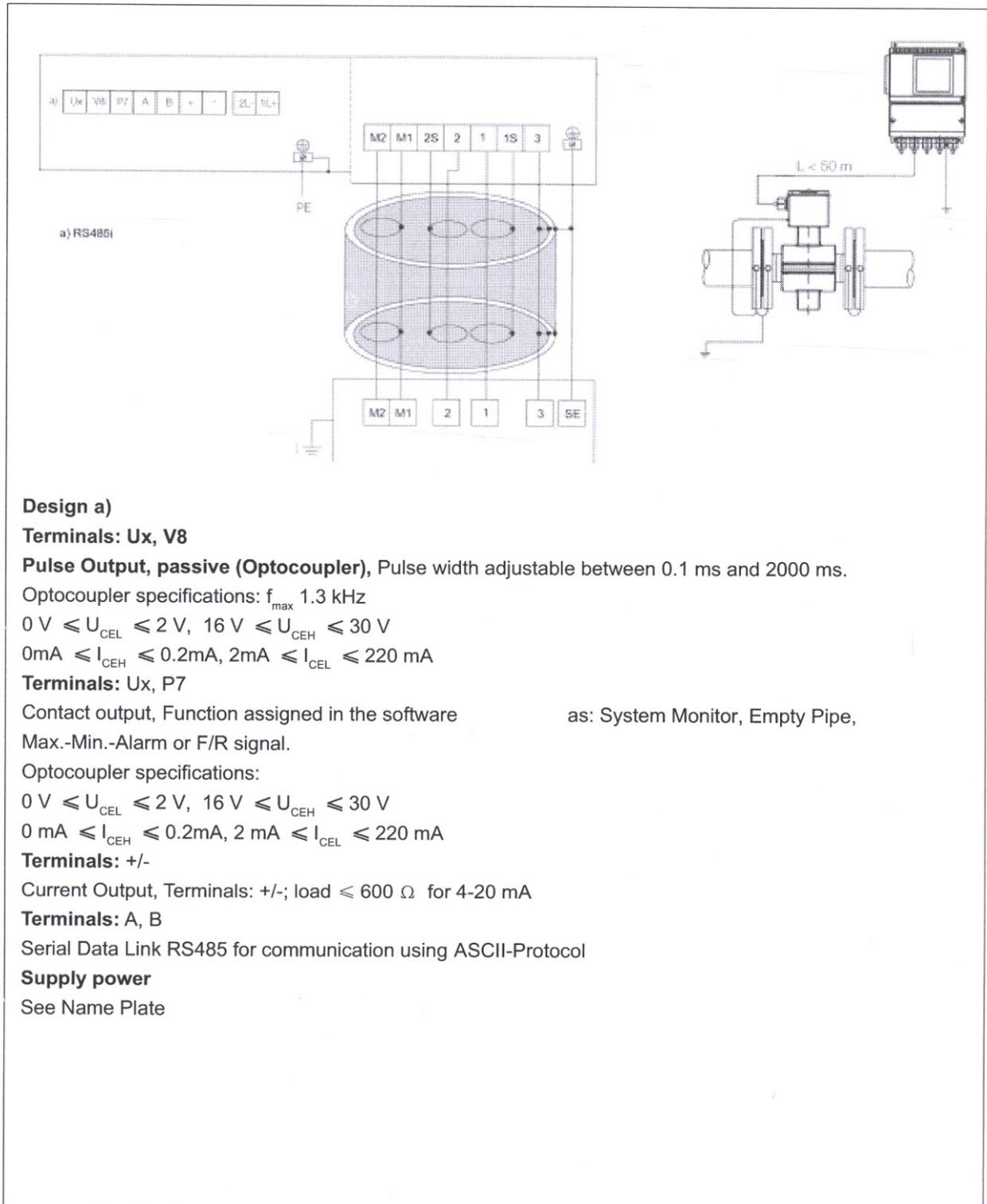
See Name Plate

Interconnection Diagram for WT4300E Remote Type Analog Communication



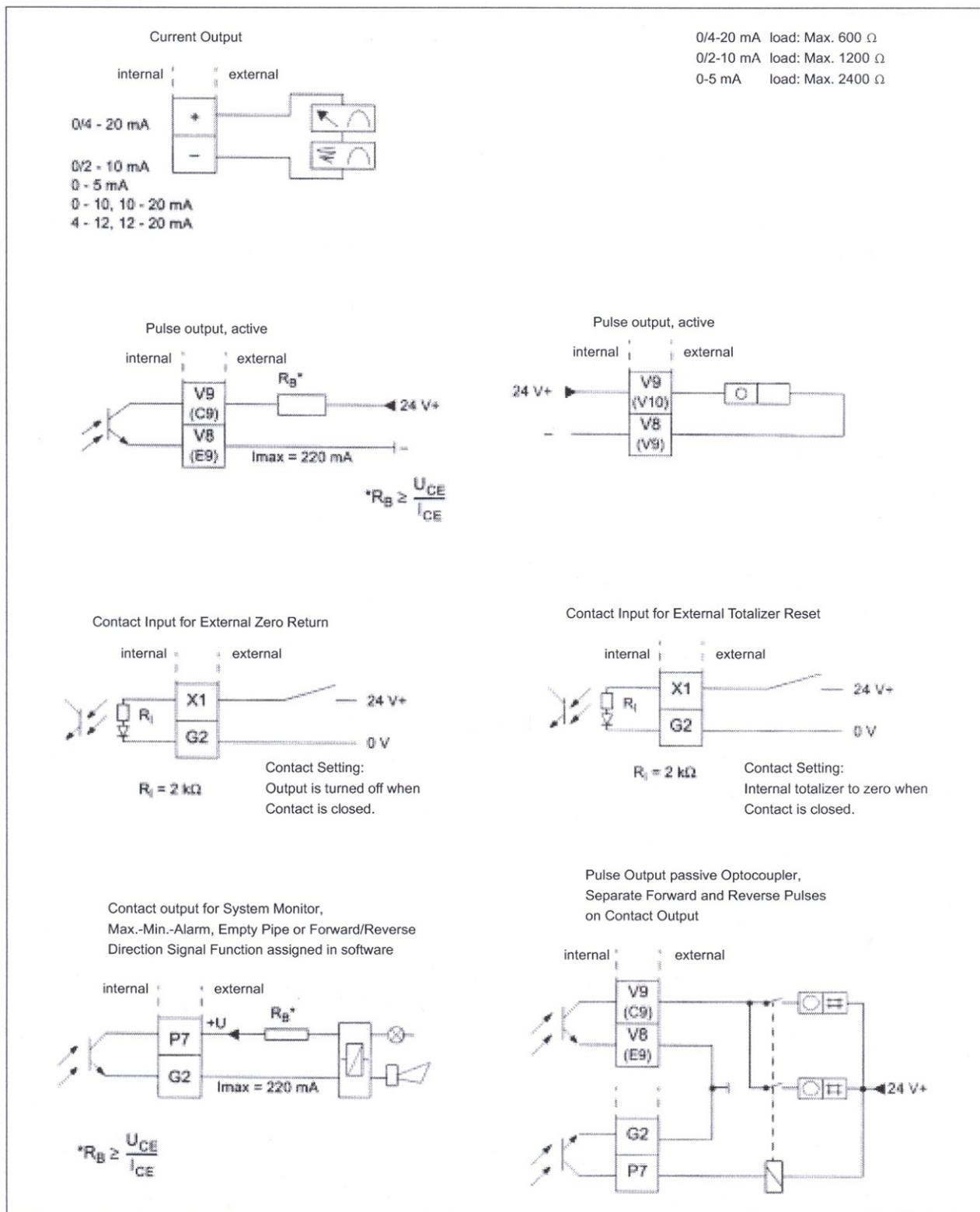
Interconnection Diagram WT4300E Remote Type for Analog Communication

Interconnection Diagram for WT4300E Remote Type Digital Communication



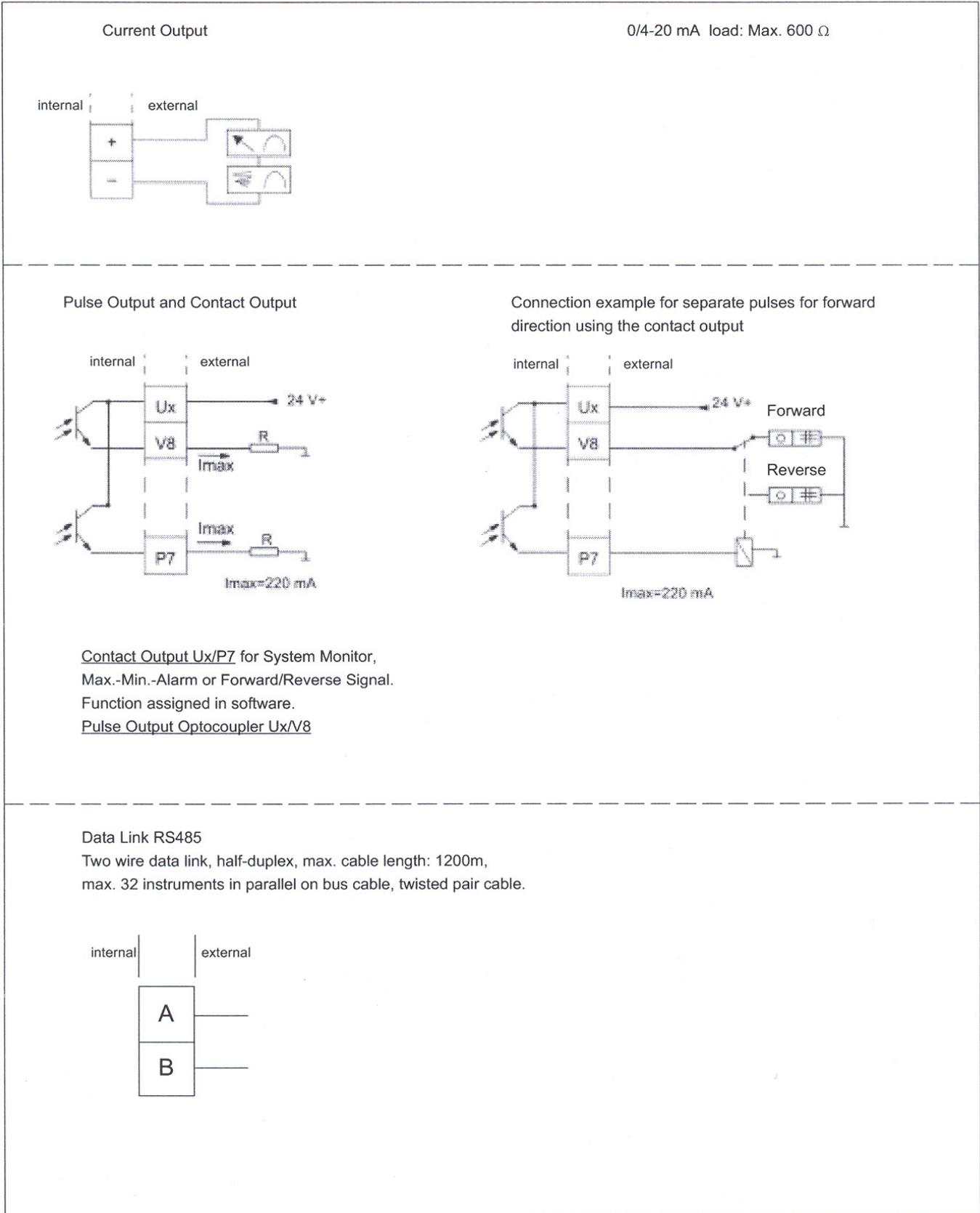
Interconnection Diagram for WT4300E Remote Type for Digital Communication

Interconnection Diagram for WT4300E Series for Analog Communication



Interconnection Examples for Peripherals with Analog Communication

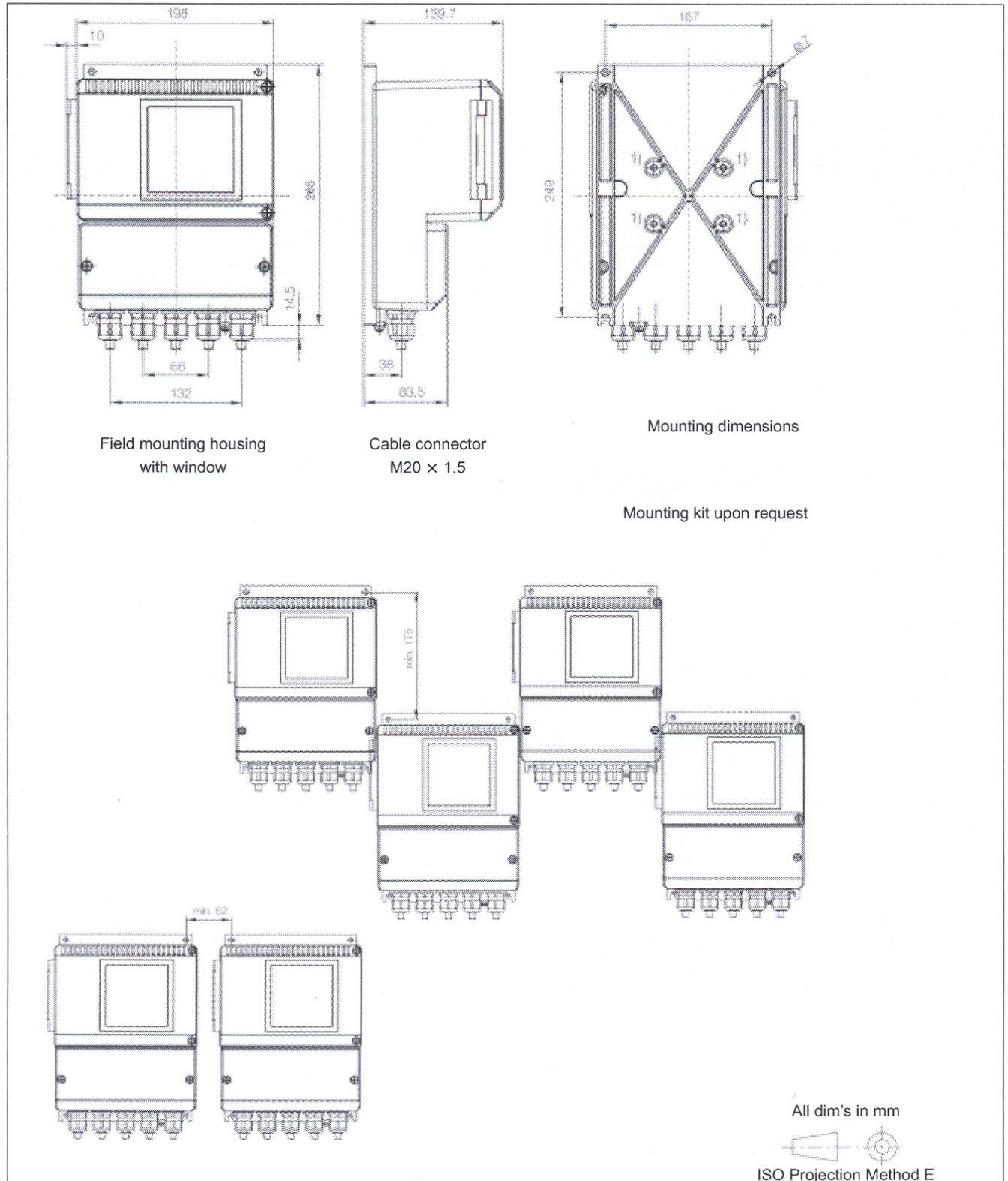
Interconnection Diagram for Output Signal of WT4300E Series with Digital Communication



Interconnection Examples for Peripherals with Digital Communication

External Dimension

Converter of WT4300E Remote Type



Field mounting housing
with window

Cable connector
M20 x 1.5

Mounting dimensions

Mounting kit upon request

Dimensions for converter WT4300E

Ordering Information

WT4300E Series Electromagnetic Flowmeter DN10-DN1000

Integral Type

Ordering Number		
2000 Series DE23F(DN ≤ 100)		
DE23W(DN ≤ 100)		
4000 Series DE43F		
DE43W(DN ≤ 100)		
Liner		
Rubber (DN ≥ 25)		H
PTFE (DN10 - 800)		T
PFA (DN10 - 100)		P
Other		Z
Meter size		
DN10		10
DN15		15
DN20		20
DN25		25
DN32		32
DN40		40
DN50		50
DN65		65
DN80		80
DN100		1H
DN125		1Q
DN150		1F
DN200		2H
DN250		2F
DN300		3H
DN350		3F
DN400		4H
DN450		4F
DN500		5H
DN600		6H
DN700		7H
DN800		8H
DN900		9H
DN1000		1T
Electrode Material	Ground Electrode Material¹⁾	
0Cr18Ni12Mo2Ti	/none	S
Hastelloy B2	/none	B
Hastelloy C4	/none	H
Titanium	/none	M
Tantalum	/none	T
Platinum-Iridium	/none	P
0Cr18Ni12Mo2Ti	/with	E
Hastelloy B2	/with	N
Hastelloy C4	/with	O
Titanium	/with	I
Tantalum	/with	Q
Platinum-Iridium	/with	G

Continued on next Page

Remote Type

DE21F(DN ≤ 100)		
DE21W(DN ≤ 100)		
DE41F		
DE41W(DN ≤ 100)		
Liner		
		H
		T
		P
		Z
		10
		15
		20
		25
		32
		40
		50
		65
		80
		1H
		1Q
		1F
		2H
		2F
		3H
		3F
		4H
		4F
		5H
		6H
		7H
		8H
		9H
		1T
		S
		B
		H
		M
		T
		P
		E
		N
		O
		I
		Q
		G

Continued on next Page

Integral Type

Pressure Rating	1.0MPa	C								
	1.6MPa	D								
	2.5MPa	E								
	4.0MPa	F								
	Other	Z								
Flange Material / Piping Flange	None(wafer type)	/ none	0							
	Carbon steel	/ none	1							
	Stainless steel	/ none	3							
	Carbon steel	/ with	5							
	Stainless steel	/ with	7							
Accessories	None		A							
	Ground plate		C							
Temperature Range	Standard temperature<130°C		S							
Protection Class	IP67		2							
Supply Power	High voltage 85-253V AC		E3 G							
	Low voltage 16.8-26.4V AC/16-31.2V DC		E3 K							
Display	Magnet Stick operation and lighted display									
In-/Output Options										
Current output+Pulse output active+Contact input+Contact output								01		
Current output+Pulse output passive+Contact input+Contact output								03		
Current output+Pulse passive+Contact output+RS485								05		
Application										
Converter housing with threads for cable connector M20 × 1.5(standard)								0		

Remote Type

	C									
	D									
	E									
	F									
	Z									
	0									
	1									
	3									
	5									
	7									
										A
										C
IP67(thds. for cable connector M20 × 1.5) Std								2		
IP68								3		

(note: Remote type converter ordering number see next page)

WT4300E Remote Type Converter Ordering Information

Accuracy: $\leq 0.5\%$ of rate

Remote type converter		E3	
Housing			
Field mount housing rectangular(threads for cable connector M20 × 1.5), standard		Q	
Supply Power	High voltage 85 - 253V AC		G
	Low voltage 16.8 -26.4V AC/16.8 - 31.2V DC		K
Display	Magnet Stick operation and lighted display		D
In-/Output Options			
Current output+Pulse output active+Contact input+Contact output			01
Current output+Pulse output passive+Contact input+Contact output			03
Current output+Pulse output passive+Contact output+RS485			05

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