

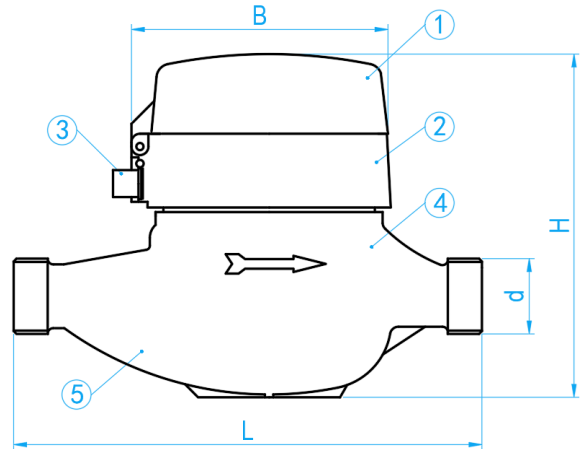
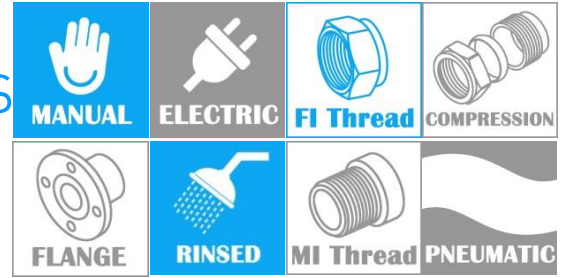
BRAND : "NORIKA"

**PRODUCT : - WATER METER
(Able link to BMS)**

DESCRIPTION : PLUMBING INSTALLATION

MULTI JET/ DRY DIAL SMART WATER METER WITH MODBUS RTU OUTPUT (CLASS B)

COMPLY WITH BS EN 12165:2016
AS NZS 4020:2018
SS 375:2015



Wire material used: RS485 bus RVV4x (0.2-1mm²) shielded wire.

STANDARD SPECIFICATIONS

Water Temperature	0°C ≤ t ≤ 30°C
Operating Pressure	≤ 1.0Mpa
Operating Voltage	DC12V
Quiescent Current	1.0~1.3mA
Communication transmission rate	9600 B/S

COMPONENT PARTS

ITEM	PARTS	MATERIAL
1	Lid	ABS
2	Sealed Register	PC+ABS+POM
3	Communications	/
4	Body	DN15~42: Brass DN50: Ductile Iron
5	Single Jet Impeller	ABS

FLOW RATE SPECIFICATIONS

SKU	QS Maximum flow rate [m ³ /h]	QP Nominal flow rate [m ³ /h]	Qt Transitional flow rate [l/h]	Qmin Minimum flow rate [l/h]	Maximum count
WMSN015	3.0	2.5	120	30	9999
WMSN020	5.0	4.0	200	50	9999
WMSN025	5.0	6.3	200	50	9999
WMSN035	5.0	10.0	200	50	9999
WMSN042	20.0	16.0	800	200	9999
WMSN050	31.3	25.0	500	313	99999.9

DIMENSIONS

SKU	SIZE(mm)	L(mm)	B(mm)	H(mm)	D(mm)	d(mm)	WEIGHT(kg)	PCS/CTN
WMSN015	15	164	93	117	G ¾"	R ½"	1.25	10
WMSN020	20	190	93	119	G 1"	R ¾"	1.44	10
WMSN025	25	224	93	127	G 1-1/4"	R1"	2.06	8
WMSN035	32	229	84	137	G 1-1/2"	R1-1/4"	2.84	5
WMSN042	40	245	84	169	G 2"	R 1-1/2"	4.22	4
WMSN050	50	299	84	195	G2-1/2"	R 2"	8.12	1

*1) Ensure water meter is installed in the correct water flow direction.

2) Always ensure to select the correct size and spec for the meter.

3) All of the above water meters are only suitable to be installed in the horizontal position. Failing to comply will result in damaging the meter and warranty will be voided.

4) Exclusively use in indoors installation.

TEST CERTIFICATE

Certificate number: TC-J0274

Client: Liang Chew Hardware Pte Ltd
133 Kitchener Road
Singapore 208517

Product: Water Meter

Brand / Model: Norika / WMN

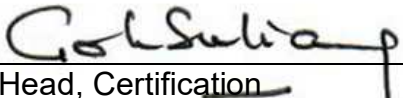
Detail: Single Jet, Multi Jet, Woltman & Smart Water Meters (BMS)

Specification: BS EN 12165: 2016, AS/NZS 4020: 2018 & SS 375: 2015

Test Reports: 2121202/01-CPC, 2121202/02-CPC, 2120980/02-CPC, 2120980/03-CPC

Summary

A sample of product submitted was tested and found to comply with the test requirements of the above standard(s).


Head, Certification
Singapore Test Lab Pte Ltd

Date of Original Issue:

17 August 2021

Date of Last Revision:

-

Date of Expiry:

16 August 2023

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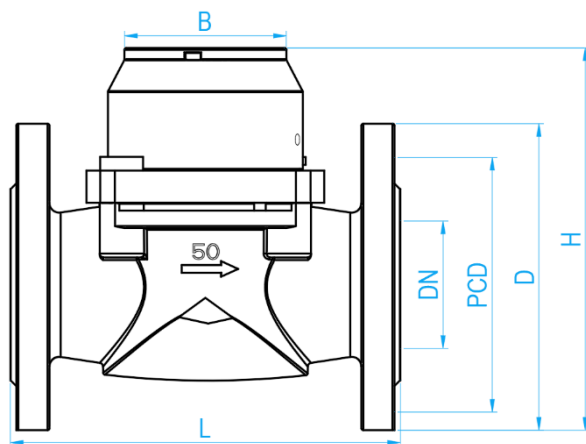
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MULTI JET/ WOLTMAN DRY DIAL SMART WATER METER WITH MODBUS RTU OUTPUT (CLASS B)

COMPLY WITH BS EN 12165:2016
AS NZS 4020:2018
SS 375:2015



Wire material used: RS485 bus RVV4x (0.2-1mm²) shielded wire.

STANDARD SPECIFICATIONS

Water Temperature	0°C ≤ t ≤ 30°C
Operating Pressure	≤ 1.0Mpa
Operating Voltage	DC12V
Quiescent Current	1.0~1.3mA
Communication transmission rate	9600 B/S

COMPONENT PARTS

ITEM	PARTS	MATERIAL
1	Lid	ABS
2	Sealed Register	PC+ABS+POM
3	Communications	/
4	Body	Ductile Iron
5	Impeller	ABS
6	Flange	Ductile Iron

FLOW RATE SPECIFICATIONS

SKU	Q max Maximum flow rate [m ³ /h]	Q n Nominal flow rate [m ³ /h]	Qt Transitional flow rate [m ³ /h]	Q min Minimum flow rate [m ³ /h]	Maximum count
WMSN050F	50.0	40	0.80	0.50	99999.9
WMSN065F	78.7	40	0.80	0.50	99999.9
WMSN080F	125.0	63	1.28	0.80	99999.9
WMSN100F	200.0	100	2.00	1.25	99999.9
WMSN125F	200.0	160	3.20	2.00	999999
WMSN150F	312.5	250	5.00	3.10	999999
WMSN200F	500.0	400	8.00	5.00	999999

DIMENSIONS

SKU	DN (mm)	L (mm)	H (mm)	B (mm)	CONNECTING FLANGE			WEIGHT (kg)	PCS/CTN
					D	PCD	N*d		
WMSN050F	50	204	256	91	165	125	4*M16	11.14	1
WMSN065F	65	200	265	91	185	145	4*M16	11.96	1
WMSN080F	80	225	272	91	200	160	8*M16	12.84	1
WMSN100F	100	248	280	91	220	180	8*M16	14.22	1
WMSN125F	125	250	285	91	245	210	8*M16	22.00	1
WMSN150F	150	300	340	91	285	240	8*M20	34.76	1
WMSN200F	200	350	370	91	340	295	8*M20	48.00	1

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4) Exclusively use in indoors installation.

*Note: The tolerance for L is ±5% .

TEST CERTIFICATE

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Singapore 208517

Product: Water Meter

Brand / Model: Norika / WMN

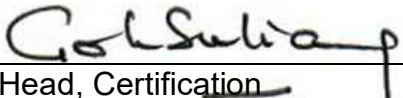
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Contact person: QC Manager /Dara Seah

SINGAPORE PROJECT REFERENCE

We are pleased to forward you our **NORIKA SMART WATER METER (WMSN)** Project Reference for the past year for your kind attention:

BcID	PrjName	Developer	Maincon	MEConsultant	PrjFrom	PrjTo
28831006	DATA CENTRE	SPH AND KEPPEL LAND LTD	ENGIE RCS PTD LTD	i3 CRITICAL FACILITIES PTE LTD	2021/12	2022/12
17477006	PUNGGOL NORTH C5 NORTHSHORE EDGE	HDB	TEAMBUILD ENGINEERING & CONSTRUCTION PTE. LTD	HDB	2018/05	2021/10
28806006	CONTRACT PD191 A&A OFFICES	LTA	MUTIARA (FE) PTE LTD	MUTIARA (FE) PTE LTD	2021/07	2022/12