

MWN NUBIS | MWN-NK | MWN-NO | MWN-NKO | MWN-NKOP MWN130 NUBIS | MWN130-NK | MWN130-NKP

Propeller water meters (woltman) with horizontal rotor axis (DN40-500)

Application

For measuring of consumption of greater amounts of cold water with a temperature up to 30°C or 50°C, or hot water with a temperature up to 130°C, on the maximum working pressure up to 16 bar (PN16). Suitable for installation in the horizontal hoses (pipelines) with the counter directed upwards (**H**), in vertical or horizontal hoses with the counter directed sideways (**V**) or in diagonal hoses (**H/V**). MWN water meters in standard version are equipped with six-barrel counter (IP66, IP68 – optional) and painted cast-iron housing. Water meters are adapted to operation in the systems of remote data transfer (AMR).



MWN



MWN50-G



Measurement range (MID):

MWN / MWN130

- Cold water **R100÷200 - H, V**
- Warm water **R25÷40 - H, V**

MWN-G / MWN130-G

- Cold water **R100 - H, V**
- Warm water **R40 - H, V**

Table 12. Basic technical data

| Type | Q ₃ [m ³ /h] | DN [mm] | Length [mm] | Connection | Weight [kg] | Impulse value NK [dm ³ /imp.] | | | |
|------------------------------------|---------------------------------------|------------|----------------|------------|----------------|---|------------|---------------------------------------|--------|
| | | | | | | NK** | | NO | |
| | | | | | | Standard | On request | | |
| WATER METERS for cold water | | | | | | | | | |
| MWN 40 Nubis | R100 | 25 | 40 | 200 | flange*** | 7,9 | 1000 | 2,5 10 25 100 250 1000 | 1 |
| MWN 40-XX* Nubis | R100 | 25 | 40 | 200 | flange*** | 8,3 | | | |
| MWN 50 Nubis | R100 | 40 | 50 | 200 | flange*** | 9,9 | | | |
| MWN 50-XX* Nubis | R100 | 40 | 50 | 200 | flange*** | 10,3 | | | |
| MWN 50-G Nubis | R100 | 40 | 50 | 200 | G2½ | 5,4 | | | |
| MWN 50-G-XX* Nubis | R100 | 40 | 50 | 200 | G2½ | 5,8 | | | |
| MWN 65 Nubis | R125 | 63 | 65 | 200 | flange*** | 10,6 | | | |
| MWN 65-XX* Nubis | R125 | 63 | 65 | 200 | flange*** | 11,0 | | | |
| MWN 80 Nubis | R160 | 100 | 80 | 225 | flange*** | 13,8 | | | |
| MWN 80-XX* Nubis | R160 | 100 | 80 | 200** | flange*** | 13,3 | | | |
| MWN 80-XX* Nubis | R160 | 100 | 80 | 225 | flange*** | 14,2 | | | |
| MWN 80-XX* Nubis | R160 | 100 | 80 | 200** | flange*** | 13,7 | | | |
| MWN 100 Nubis | R200 | 160 | 100 | 250 | flange*** | 15,6 | 10000 | 25 100 250 1000 2500 | 10 |
| MWN 100-XX* Nubis | R200 | 160 | 100 | 250 | flange*** | 16,0 | | | |
| MWN 125 Nubis | R160 | 250 | 125 | 250 | flange*** | 18,1 | | | |
| MWN 125-XX* Nubis | R160 | 250 | 125 | 250 | flange*** | 18,5 | | | |
| MWN 150 Nubis | R200 | 400 | 150 | 300 | flange*** | 40,1 | | | |
| MWN 150-XX* Nubis | R200 | 400 | 150 | 300 | flange*** | 40,5 | | | |
| MWN 200 Nubis | R125 | 630 | 200 | 350 | flange*** | 51,1 | | | |
| MWN 200-XX* Nubis | R125 | 630 | 200 | 350 | flange*** | 51,5 | | | |
| MWN 250 Nubis | R100 | 1000 | 250 | 450 | flange*** | 75,1 | | | |
| MWN 250-XX* Nubis | R100 | 1000 | 250 | 450 | flange*** | 75,5 | | | |
| MWN 300 Nubis | R125 | 1600 | 300 | 500 | flange*** | 103,1 | 10000 | 250, 1000, 2500 | 105,23 |
| MWN 300-XX* Nubis | R125 | 1600 | 300 | 500 | flange*** | 103,5 | | | |



| Type | | Q ₃ [m ³ /h] | DN [mm] | Length [mm] | Connection | Weight [kg] | Impulse value NK [dm ³ /imp.] | | |
|-------------------|---------|---------------------------------------|------------|----------------|------------|----------------|---|------------|--------|
| | | | | | | | NK** | | NO |
| | | | | | | | Standard | On request | |
| MWN 400 Nubis | Klasa B | 1000 (Qn) | 400 | 600 | flange*** | 240,0 | 10000 | 1000 | 105,23 |
| MWN 400-XX* Nubis | Klasa B | 1000 (Qn) | 400 | 600 | flange*** | 240,4 | | | |
| MWN 500 Nubis | Klasa B | 1500 (Qn) | 500 | 800 | flange*** | 380,0 | 10000 | 1000 | 100 |
| MWN 500-XX* Nubis | Klasa B | 1500 (Qn) | 500 | 800 | flange*** | 380,4 | | | |

WATER METERS for hot water

| | | | | | | | | | | | | |
|-----------------------|-----|------|-----|-------|-----------|-------|------|--------------------------------|---|------|-----------------------------------|---|
| MWN130 40 Nubis | R40 | 25 | 40 | 200 | flange*** | 7,9 | 100 | 2,5 10 25 250 1000 | - | | | |
| MWN130 40-XX* Nubis | R40 | 25 | 40 | 200 | flange*** | 8,3 | | | | | | |
| MWN130 50 Nubis | R40 | 25 | 50 | 200 | flange*** | 9,9 | | | | | | |
| MWN130 50-XX* Nubis | R40 | 25 | 50 | 200 | flange*** | 10,3 | | | | | | |
| MWN130 50-G Nubis | R40 | 25 | 50 | 200 | G2½ | 5,4 | | | | | | |
| MWN130 50-G-XX* Nubis | R40 | 25 | 50 | 200 | G2½ | 5,8 | | | | | | |
| MWN130 65 Nubis | R40 | 40 | 65 | 200 | flange*** | 10,6 | | | | | | |
| MWN130 65-XX* Nubis | R40 | 40 | 65 | 200 | flange*** | 11,0 | | | | | | |
| MWN130 80 Nubis | R40 | 63 | 80 | 200** | flange*** | 13,3 | | | | | | |
| | | | | 225 | flange*** | 13,8 | | | | | | |
| MWN130 80-XX* Nubis | R40 | 63 | 80 | 200** | flange*** | 13,7 | | | | | | |
| | | | | 225 | flange*** | 14,2 | | | | | | |
| MWN130 100 Nubis | R40 | 100 | 100 | 250 | flange*** | 15,6 | | | | 1000 | 25 100 250 2500 10000 | - |
| MWN130 100-XX* Nubis | R40 | 100 | 100 | 250 | flange*** | 16,0 | | | | | | |
| MWN130 125 Nubis | R40 | 160 | 125 | 250 | flange*** | 18,1 | | | | | | |
| MWN130 125-XX* Nubis | R40 | 160 | 125 | 250 | flange*** | 18,5 | | | | | | |
| MWN130 150 Nubis | R40 | 250 | 150 | 300 | flange*** | 40,1 | | | | | | |
| MWN130 150-XX* Nubis | R40 | 250 | 150 | 300 | flange*** | 40,5 | | | | | | |
| MWN130 200 Nubis | R25 | 400 | 200 | 350 | flange*** | 51,1 | | | | | | |
| MWN130 200-XX* Nubis | R25 | 400 | 200 | 350 | flange*** | 51,5 | | | | | | |
| MWN130 250 Nubis | R25 | 630 | 250 | 450 | flange*** | 75,1 | | | | | | |
| MWN130 250-XX* Nubis | R25 | 630 | 250 | 450 | flange*** | 75,5 | | | | | | |
| MWN130 300 Nubis | R25 | 1000 | 300 | 500 | flange*** | 103,1 | 1000 | 250, 2500, 10000 | - | | | |
| MWN130 300-XX* Nubis | R25 | 1000 | 300 | 500 | flange*** | 103,5 | | | | | | |

*) DN-XX / DN-G-XX – Water meters designs – where -XX stands for:

-NK – water meter with pulse transmitter with standard cable length of 2 linear metres – max. 10 m – remote transmission of volume counting

-NO – opto-electronic transmitter (not applicable to water meters for hot water) with standard cable length of 2 linear metres – max. 10 m – remote transmission of volume counting

-NKO – water meter equipped with NK and NO transmitter

-NKOP – water meter adapted for installation of NK and NO transmitter

On request – special design for demineralised water, only for diameters DN40-125 cold and hot water

On request – water meter (at the inlet) housing with pressure measurement outlet (coupling with lockshield valve, of the HASCO type: Z807/13/16x1.5), concerning diameter DN40-DN150 – only cold water

**) On request housing length according to ISO 4064

**) Flange drilling:

- Standard according to PN-EN 1092-2 (PN10), DIN 2532, DIN2501 (PN10), BS4504 (PN10)

- Special according to PN-EN 1092-2 (PN16) (on request)

- Additional according to JIS B2220-1984 (DN40-300) and ANSI B16.5 class 150 (DN40-300) (on request)

****) On request IP68 – cold water only, pre equipped for radio transmitters - Wireless M-Bus standard or NK transmitter with pulse range 10, 100, 1000 dm³/imp. (not applicable to NO and NKO)

Product features

- Preequipped for installation of: radio module for communication in the Wireless M-Bus and impulse module (not applicable to water meters for hot water and versions with NK, NO, NKO and NKOP transmitters)
- Wide measuring range
- Low starting rate
- Removable measuring panel
- Double-sided rotor bearing
- Easy reading of the water meter counter
- Hermetic counter - IP68 on request ****)
- Counter mechanism with blockade against multiple rotating, at rotation angle more than 360°
- Readings reliability
- In special option housing with connection for pressure measurement DN50-300 (cold and hot water)
- Optional version for demineralised water DN40-125 (cold and hot water)
- On request possibility of another drilling