



iskraemeco  
BY ELSEWEDY ELECTRIC

## IskraMAG V2

Iskramag V2 is an electromagnetic flow meter for a measurement of flow of conductive liquids in water supply, chemical, food and heat distribution industry. It satisfies the most stringent requirements as to the measurement accuracy, long-term stability and sanitary standards. The measurement of flow is carried out in both directions. The meter sensor doesn't have any mechanical moving parts and

its installation into the piping system has no impact on fluid mechanics or pressure. The transmitter supplies power and processes signals coming from the sensor. The OLED display is readable even in the extreme frost. The basic configuration doesn't require opening of flowmeter, since the control is performed by using optical sensors. The meter is equipped with a pulse, frequency and current outputs and for communication there is MODBUS RTU protocol.



# Meter Specification

| IskraMAG v2                                      |  |
|--|--|
| nominal diameter/size                            | DN15 to DN1200 / 3/4" to 48"   |
| nominal pressure [bar/psi]                       | 6, 10, 16, 25, 40 / 150, 300, 600  |
| min. conductivity of measured liquid             | 10 $\mu$ S/cm  |
| electrode material                               | stainless steel, grade 1.4571 (316Ti), Hastelloy C276, Titanium, Tantalum              |
| ambient temperature                              | -40°C to +70°C (-40°F to 160°F)  |
| sensor lining                                    | soft or hard rubber, special rubber for drinking water, Teflon                         |
| design version                                   | compact or with remote transmitter   |
| connection                                       | flanged (depending on customer requirements), flangeless                               |
| max. temperature of measured liquid              | up to 150°C (302°F)  |
| measurement accuracy EN ISO 4064-1 (OIML R 49) * | 2  |
| measurement repeatability                        | $\pm$ 0.15%  |
| measurement range                                | 0.025 to 10 m/s (0.08 to 33 ft/s)  |
| outputs  | current 4 to 20 mA, insulated<br>2pc pulse / binary / frequency 0 to 10 kHz, insulated |
| communication protocol                           | MODBUS RTU   |
| power supply                                     | 95 to 250V, 50 to 60Hz (AC) or 24V $\pm$ 20% (DC) 19.2 to 28.8V                        |
| protection class                                 | IP 67 (IP 68 on request)   |

\* optional measurement accuracy  $\pm$  0.3% for 5 to 100 % of  $Q_4$

## DESIGN VERSION, CONFIGURATION AND TYPE DESIGNATION

|                  |            |         |         |
|------------------|------------|---------|---------|
| design version   |            | COMPACT | REMOTE  |
| configuration    |            | COMFORT | COMFORT |
| type designation | flanged    | FH3014  | FH3015  |
|                  | flangeless | FH3024  | FH3025  |

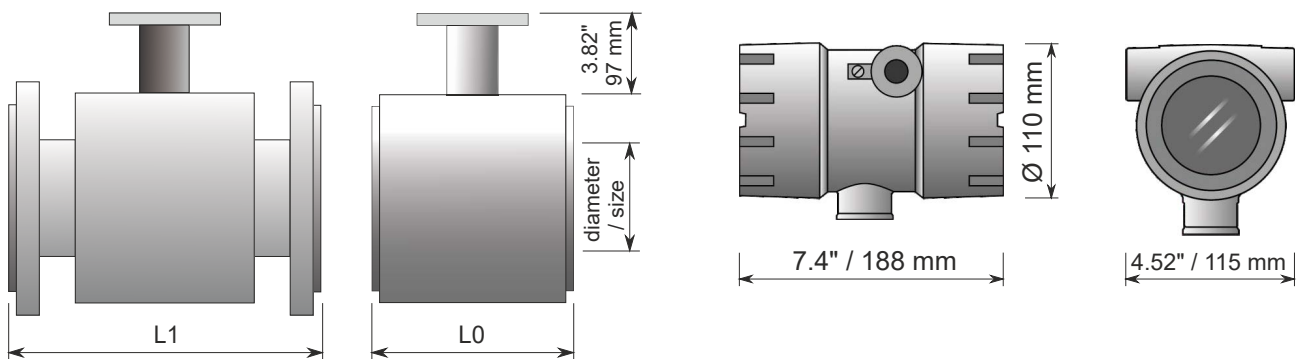
## RATED INTERNAL DIAMETER AND SENSOR LENGTH

| pressure  | 40 bar/<br>150lb |                    | 16 bar/150lb   |                |     |      |      | 10 bar/150lb |      |      |                  |                  | 6 bar/150lb |      |      |      |
|-----------|------------------|--------------------|----------------|----------------|-----|------|------|--------------|------|------|------------------|------------------|-------------|------|------|------|
|           | diameter<br>[mm] | 20                 | 25<br>to<br>40 | 50<br>to<br>80 | 100 | 125  | 150  | 200          | 250  | 300  | 350              | 400<br>to<br>600 | 700         | 800  | 900  | 1000 |
| size [in] | 3/4"             | 1"<br>to<br>1 1/2" | 2"<br>to<br>3" | 4"             | 5"  | 6"   | 8"   | 10"          | 12"  | 14"  | 16"<br>to<br>24" | 28"              | 32"         | 36"  | 40"  | 48"  |
| L1 [mm]   | 200              | 200                | 200            | 250            | 250 | 300  | 350  | 450          | 500  | 550  | 600              | 700              | 800         | 900  | 1000 | 1200 |
| L1 [in]   | 7.9              | 7.9                | 7.9            | 9.8            | 9.8 | 11.8 | 13.8 | 17.7         | 19.7 | 21.7 | 23.6             | 27.6             | 31.5        | 35.4 | 39.4 | 47.2 |
| L0 [mm]   | 74               | 104                | 104            | 104            | 134 | 134  | 219  | -            | -    | -    | -                | -                | -           | -    | -    | -    |
| L0 [in]   | 2.9              | 4.1                | 4.1            | 4.1            | 5.3 | 5.3  | 8.6  | -            | -    | -    | -                | -                | -           | -    | -    | -    |

### FLANGED VERSION

### FLANGELESS VERSION

### TRANSMITTER



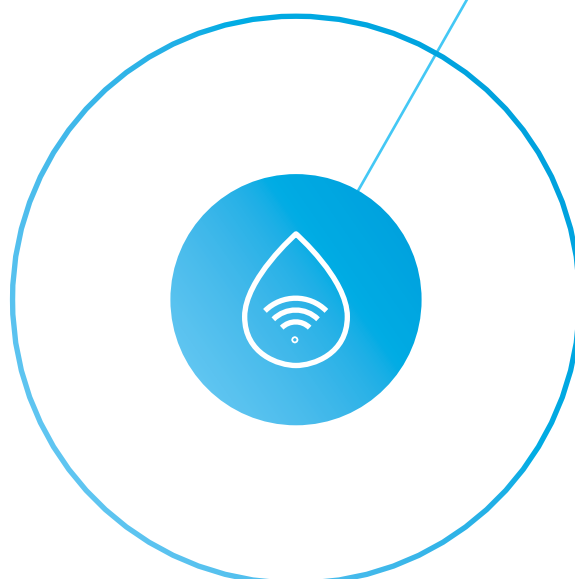
Certified according to MID (TCM 142/20 - 5738)



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## **SMART WATER.**

Every drop of water is precious for the planet and for the future life as we know it.



**ISKRAEMECO GROUP**

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