# YDAC INTERNATIONAL



## **Flow Rate Transmitter EVS 3110**

**Turbine** High accuracy Additional measuring connections

### **Description:**

The flow rate transmitters in the EVS 3110 series (stainless steel series) are specially designed for use in hydraulic and other fluid power systems. They operate in accordance with the turbine principle, which means that the rpm of an impeller wheel rotating in the flow of the media is measured and converted into a 4 .. 20 mA analogue signal.

In the EVS 3110 stainless steel series, the impeller has a carbide bearing and the resulting increased robustness also makes it suitable for use in pulsating, dynamic applications.

Two further G1/4 threaded holes in the turbine housing allow additional units to be connected, e.g. temperature and pressure

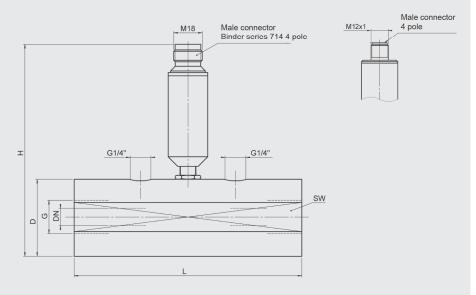
### For water-based media

#### **Technical data:**

Input data	
Measuring ranges 1) and operating pressure	
1.2 20.0 l/min	400 bar
6.0 60.0 l/min	400 bar
15.0 300.0 l/min	400 bar
40.0 600.0 l/min	400 bar
Additional connection options	2 x G1/4 female threads for pressure and/or temperature sensors
Housing material	Stainless steel
Output data	
Output signal, permitted load resistance	4 20 mA, 2-conductor $R_{Lmax}$ = (U <sub>B</sub> - 10 V) / 20 mA [k $\Omega$ ]
Accuracy	≤ 2 % of the actual value
Environmental conditions	
Compensated temperature range	-20 +70 °C
Operating temperature range	-20 +70 °C
Storage temperature range	-40 +100 °C
Fluid temperature range	-20 +90 °C
C € mark	EN 61000-6-1 / 2 / 3 / 4
Protection class acc. to DIN EN 60529 2)	IP 65 (Binder male connector 714 M18) IP 67 (M12x1 male connector)
Other data	
Measuring medium 3)	Water-based media
Viscosity range	1 100 cSt
Calibration viscosity	5 cSt
Supply voltage	10 32 V DC
Residual ripple of supply voltage	≤ 5 %

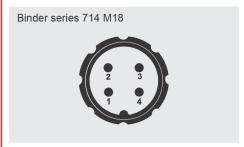
Other measuring ranges on request.
 With mounted mating connector in corresponding protection class
 Other measuring media on request

#### **Dimensions:**



Model	Measuring range	L	Н	D/SW	G	Torque, recommended	DN
	[l/min]	[mm]	[mm]	[mm]		[Nm]	[mm]
EVS 311X-A-0020	1.2 20	117	135	47 / 46	G1/4"	60	7
EVS 311X-A-0060	6 60	144	135	48.5 / 46	G1/2"	130	11
EVS 311X-A-0300	15 300	155	150	63.5 / 60	G11/4"	500	22
EVS 311X-A-0600	40 600	181	150	63.5 / 60	G1½"	600	30

#### **Pin connections:**



Pin	EVS 3114-A	
1	Reserved	
2	Signal +	
3	Signal -	
4	Reserved	



Pin	EVS 3116-A
1	Signal +
2	Reserved
3	Signal -
4	Reserved

#### Model code:

EVS 3 1 <u>1 X - A - XXXX - 000</u>

## Housing material 1 = stainless

= stainless steel

#### **Electrical connection**

= male, 4 pole Binder series 714 M18 (mating connector not supplied)

= male M12x1, 4 pole (mating connector not supplied)

#### **Output signal**

= 4 .. 20 mA, 2-conductor (4 mA ≙ 0 l/min)

Measuring range

0020 = 1.2 .. 20 l/min

0060 = 6.0 .. 60 l/min 0300 = 15.0 .. 300 l/min 0600 = 40.0 .. 600 l/min

#### **Modification number**

000 = standard

Appropriate accessories, such as mating connectors, can be found in the Accessories brochure.