



#### Reliable

Reliable flow measurement allows reliable detection of leaks in the dam

#### Cost effective

Sensor with high protection rating for long service life, even under extremely humid conditions

#### User friendly

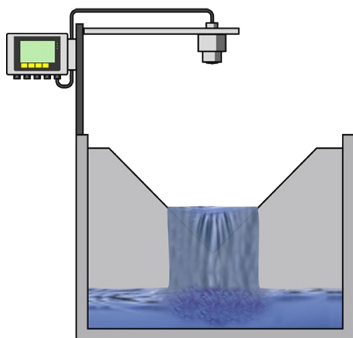
Easy setup via external display and adjustment unit

## Dam of the hydroelectric power plant

### Flow measurement at the dam

The seepage water in the dam of the hydroelectric plant is collected in pipes or channels. The quantity of seepage water provides information on the condition of the dam (another indicator of the condition of the dam is the clouding of the seepage water which is also assessed). The quantity of water flowing in an open channel is measured via water head height as it passes through a 'V' notch, flume or weir structure, which is then calculated into flow rate.

[More details](#)



### VEGAPULS C 21

Non-contact flow measurement with radar at the dam of the hydroelectric power plant

- Non-contact, high accuracy flow measurement
- Unaffected by environmental influences
- Simple set up with integrated flow characteristics

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### VEGAMET 841

Flow computation, control and display for open channel flow measurement structures

- Highly accurate calculation of the flow rate
- Clear, simple display of flow rate and total flow volume
- Fast setup and commissioning thanks to simple menu navigation and application wizards

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**VEGAPULS C 21**  
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**Measuring range - Distance**  
15 m

**Process temperature**  
-40 ... 80 °C

**Process pressure**  
-1 ... 3 bar

**Accuracy**  
± 2 mm

**Frequency**  
80 GHz

**Beam angle**  
8°

**Materials, wetted parts**  
PVDF

**Threaded connection**  
G1½ / G1, 1½ NPT / 1 NPT, R1½ / R1

**Seal material**  
FKM

**Protection rating**  
IP66/IP68 (3 bar), Type 6P

**VEGAMET 841**  
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**Protection rating**  
IP66/IP67, Type 4X

**Input**  
1 x 4 ... 20 mA sensor input

**Output**  
1 x 0/4 ... 20 mA current output  
3 x operating relay  
1x failure relay (instead of operating relay)

**Ambient temperature**  
-40 ... 60 °C