

# UNIFLO 1000

## COST EFFECTIVE TEMPERATURE GAS CONVERSION DEVICE



*High accuracy  
Economical solution  
Long battery lifetime - 15 years  
Prepared for remote reading with data output  
Easy to mount*

### **Flonidan DC A/S**

Flonidan DC, located in Horsens Denmark, is a leading manufacturer of gas conversion devices, automatic meter reading devices, temperature compensated domestic gas meters and gas stations. After the recent acquisition of Dancontrol, Flonidan DC has the largest range of gas volume conversion devices worldwide. Flonidan DC is 50% owned by the Danish AVK-group.

### **Temperature conversion matters – also on low pressure**

Flonidan DC present a new gas conversion device, that suits the demand for economical measurement without compromising quality and accuracy.

The conversion device is small and easy to mount on diaphragm, rotary and turbine meters. It can also be mounted on the wall. Upon request Flonidan DC can deliver sensor pockets.

### **We comply with European standards**

Uniflo 1000 complies with all relevant European standards such as EN 12405 and MID on metrology as well as the ATEX directive on explosion proof requirements.

Uniflo 1000 perfectly suits for installations, that require stable, reliable and economic efficient temperature conversion.

# TECHNICAL SPECIFICATIONS



## Specifications:

### Gas temperature:

-25... +55°C

### Ambient temperature:

-25... +55°C

### Pulse input:

One digital LF-input  $f < 1,5$  Hz. Wigand pulses also possible.  
0,001 - 10 m<sup>3</sup> per pulse.

### Temperature sensor:

NTC-resistor type. Calibrated together with the electronic device.  
Certificate included with the device.

### Sensor dimensions:

Dimension	Order no.
Ø5x50 mm	0618000-001
Ø4x50 mm	0618000-002
Ø5x50 mm with Jack connection for data communication	0618000-004

Other on request.

### Pressure range:

0 - 500 mbar G (1-1,5 bar A). Fixed factor input.

### Data log:

20 monthly loggings of converted volume including time stamp.

### Alarm log:

5 different alarms including time stamp and total converted volume.

### Max flow log:

The 5 last registered max flow values including time stamp.

### Compressibility calculation:

SGERG-88 or fixed factor.

### Configuration software:

Very user friendly PC program to parameterize and read out of data log.

## Approvals:

Metrologic approved by DANAK (Danish Accreditation Authority)

Approved in accordance to:

- EN 12405, MID, OIML D11

ATEX approval by DEMKO (Danish Electrical Equipment Control)

- ATEX classification:  
EEx ib[ia] IIB T4 CE 0539  II2(1)G  
Ta: -25... +55°C DEMKO ATEX 136490X

## Outputs:

### Pulse output:

2 pulse outputs. Can be selected to  $V_D$  or  $V_m$  or alarm by use of setup software.

Pulse length: 125 msec.

0,001 - 1 m<sup>3</sup> per pulse.

### Serial output:

Description	Order no.
Uniwire	0618005-000
Uniwire with Jack connector for Uniflo 1000 TCE.	0618005-001

Described protocol can be delivered on request.

## Accuracy:

### Temperature measurement:

+/- 0,25°C

### Conversion factor:

+/- 0,25% of reading.

## Enclosure:

IP65

## Size (height/lenght/width in mm):

80/115/35

## Battery lifetime:

15 years, calculated 18 years. Battery change without broken sealing.

M/0618000/03  
Rev. 08.11.05