จัดจำหน่ายโดย

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Monitor Pipe Networks

with the DK680 Data Logger for Pressure or Temperature



The DK680 is a robust data logger for measuring pressure in gases or water, and optionally also for measuring temperature.

When monitoring pressure in pipe networks the device can detect short-term fluctuations as well as long-term changes in pressure thanks to a sampling interval between 8 Hz and 24 hours.

Application

- · Pipe network analysis
- · Interference analysis in pipe networks
- · Leakage tests
- · Pipe network monitoring
- Function monitoring in air pressure systems

Features

Robust pressure data logger

3x optional, programmable inputs e. g. for temperature, voltage/current, pulse count

Direct measurements on LCD

Excellent measuring accuracy

Large memory capacity for up to 4 million readings

USB port

Sampling interval programmable from 8 Hz to 24 hrs

Battery life up to 8 years

Stop when full or continous logging

LED indicator for alarm conditions

Measurements, Storage, Analysis

The data logger is powered by two standard lithium batteries and can operate continuously up to 8 years depending on the selected sampling interval.

The display shows the current readings as well as the battery condition. It also indicates whether the device is currently logging or not.

An LED signals the exceedance of preset alarm thresholds.

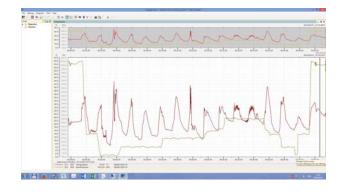
By default, the model features a pressure sensor with G1/8 inch thread; 1/4 and 1/2 inch threading adapters are included in delivery.

Three additional inputs can optionally be provided (option -3S) for use with external transmitters (e. g. temperature, pulse (water flow meter)), pressure probes or analog signals. Driesen+Kern offers a range of suitable probes and sensors.

A Certificate of Calibration from our laboratory is supplied with every sensor. DAkkS certificates can be delivered on request.

Analysis Software InfraLog light

The Software InfraLog for Windows basic allows you to set parameters, start the logger, download data as well as export readings to a CSV file type for later use with MS Excel or similar applications. InfraLog light also offers substantial graphic functions (zoom in, readings at the cursor etc.) and the option to combine several series of measurements in a single diagram.





DS-325 Temperature Probe D=4mm, L=100mm

For air and water temperature



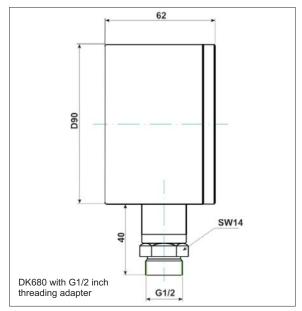
ES-325 Screw-In Probe For air and water temperature D=4mm, L=30mm M8 outside thread



PSENSE-650 Pressure Probe

Additional external pressure probe available as Level Probe or Screw-In Probe with G1/2 inch screw thread

(Measuring ranges as correspond with internal sensor)



Sensors and Inputs

	Range	МВ	Resolution	Accuracy	Overload
Pressure (absolute)	0-1bar 0-4bar 0-10bar 0-25bar 0-100bar	1 4 10 25 100	0,005%	+/-0,1 % ⁽¹⁾	4bar 10bar 32bar 32bar 130bar
Pressure (gauge)	0-250mbar 0-1bar 0-4bar	0,25 1 4	0,005%	+/-0,1 % (1)	2bar 2bar 10bar
Temperature (Internal)	-20/+80°C		0,01°C	+/- 0,3°C	N/A
Temperature (external)	-40/+120°C		0,01°C	+/- 0,3°C	N/A

(1) optional: enhanced accuracy +/-0,05%

Specifiactions

Single-ended Voltage Signals

J	0	U						
Range (mV)	0-10	0-20	0-50	0-100	0-1V	0-2.5	0-5V	0-10V
Resolution (µV) ³	0.58	0.58	0.76	1.54	15.4	38.9	76.9	154
Input impedance (MOhm)	2.5	2.5	2.5	2.5	2.5	0.1	0.1	0.1
Accuracy	0.1% of selcted measuring range							

Current

Range (mA)	0 - 24mA
Resolution (µA)	0.36 μΑ
Input impedance	10 Ohm
Accuracy	0.1% of selcted measuring range

Voltage signals from 0...1V can be fed in with the DKC-S standard cable. Signals of up to 24V can be connected using the DKC-U cable.

Measuring current signals requires the DKC-I cable.

Pulse (potential-free)

Range	065.000 pulses / interval	0100 Hertz
Resolution	1 Pulse / 1 Hz	1 Pulse / 1 Hz
Accuracy	1 Pulse / 1 Hz	1 Pulse / 1 Hz

Pulse (voltage pulse, max. 24V)

Range	065.000 pulses / interval	01300 Hertz
Resolution	1 Pulse / 1 Hz	1 Pulse / 1 Hz
Accuracy	1 Pulse / 1 Hz	

Potential-free signals with a low level <0.5VDC and a high level between 2 and 3 VDC can be connected using the included standard cable DKC-S.

Higher singals of up to 24V can be measured using the DKC-P cable.

Operating range (Logger): -20...+70°C **Dimensions:** d=90mm, h=65mm 8 years @ 1 minute 200 days @ 1 second **Battery life:**

37 days @ 8 Hz

8 Hz....24 hrs. Interval:

Housing material:

POM, IP65 Data logger Sensor V4A

Memory capacity: 4 million readings

Included in delivery:

Data logger, threading adapter for 1/4" and 1/2", 2x batteries, Software InfraLog for Windows -basic-USB cable, User Guide on USB flash drive, Declaration of Conformity

Optionally available: 3 additional inputs for external sensors.

Software InfraLog -light or enhanced, Certificate of Calibration, carrying case, wall holder, set of seals

Order Codes for the DK680 = DK680-S-MA-MB-RF

0 no additional external inputs (default)

3S with 3 additional inputs

MA = Absolute pressure Α R Gauge pressure

MB = Measuring range (see specifications)

RF = 0 no internal humidity/temperature sensor

internal humidity/temperature sensor

Subject to technical change without notice



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