PRESSURE SENSORS 1000

dimensions Ø 38 x 108mm

Ø 38 x 122mm

DW34 G1/2"A diverse pressure ranges -1 to +600bar DW35 G1/4"A diverse pressure ranges -1 to +600bar DW36 G%" diverse pressure ranges -1 to +1bar

- √ front-flush membrane
- √ pressure ranges between -1 and +600bar
- √ data logging function
- √ analog output with adjustable start and end point
- √ turn-on/off delay separately adjustable
- √ test function simulation of the adjusted switching functions in a pressure-free state
- ✓ peak hold function for the display
- √ self-monitoring function: overload, wire breakage, and sensor function

intelligent pressure sensor, membrane keyboard, USB interface











#### description

ipf electronic's pressure monitors offer a high level of operating comfort.

The DW34 series has a ½ inch connection with a front-flush membrane and can be used for pressures up to 600bar. The media touching parts of the sensor are made of stainless steel.

The DW35 is distiguished by a different sensing element connection. It comes with a 1/4 inch connection with an outside thread and can also be used up to +600bar. Like the DW34 series the media touching parts of the DW35 are also made of stainless steel.

The DW36 pressure monitor is suitable for low and negative pressure measurements. This sensor has a 1/8 inch connection. Its pressure transducer is made of ceramic and is used in a range of -1 bar to +1 bar.

The devices with a 4-pin connection have 2 outputs. Although output 1 relates to a freely-programmable switching output, for output 2 a selection can be made between an analog output, a switching output or an alarm output.

Devices with a 8-pin connection have 2 switching outputs and an analog output.

Among other things, the switching points, release positions, output logic and time delay can be programmed via the membrane keyboard.

For dynamic measurements, the display and the analog output feature an adjustable damping function.

Following installation, the sensor body can be rotated by 350° and the sensor display can be rotated by 180° by means of the software.

All adjustment parameters can be set and changed via a PC or notebook via the optical interface of the pressure monitor. The test function offers a simple and quick possibility to check the function of the device and/or the connected analyses. Each pressure value of the pressure range can be "simulated" through the operating buttons or operation via PC. The device behaves as if the actual pressure was present.

#### application examples

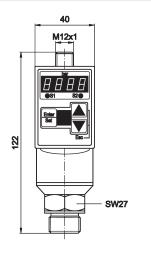
- pressure monitoring for hydraulic aggregates
- vacuum checking for vacuum lifters
- compressor control

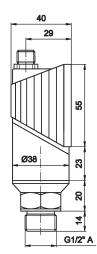


## 1000 PRESSURE SENSORS



article-no.	DW34311K	DW34311D	DW34311F	DW343114
operating range	-1 +10bar	10bar	50bar	100bar
connection	4-pin	4-pin	4-pin	4-pin
article-no.	DW34312K	DW34312D	DW34312F	DW343124
operating range	-1 +10bar	10bar	50bar	100bar
connection	8-pin	8-pin	8-pin	8-pin



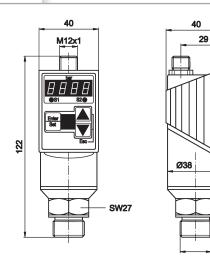


version front-flush stainless steel membrane G%" A / see below - connection (sensing element) pressure range see above pressure detection pressure detection pressure detection properly and properly an	TECHNICAE DATA				
pressure detection peak value memory every 2ms output signal pnp / analog (current output) / alarm output - see wiring diagram on following pages operating voltage	version	front-flush stainless steel membrane G½" A / see below - connection (sensing element)			
output signal pnp / analog (current output) / alarm output - see wiring diagram on following pages  operating voltage	pressure range	see above			
operating voltage output current (max. load) current consumption (w/o load) voltage drop (max. load) voltage drop (max	pressure detection	peak value memory every 2ms			
output current (max. load) current consumption (w/o load) voltage drop (max. load) voltage position: one of the final value voltage of protection voltage drop (max. load) voltage drop (max. load) voltage drop (max. load) voltage (max. load) voltage drop (max. load) voltage position (max. load) voltage drop (max. load) voltage drop (max. load) voltage drop (max. load) voltage drop (max. load) voltage position (max. load) voltage drop (max. load) voltage drop (max. load) voltage drop (max. load) voltage drop (max. load) voltage position (max.	output signal	pnp / analog (current output) / alarm output - see wiring diagram on following pages			
current consumption (w/o load) voltage drop (max. load) turn-on/off delay adjustment range repeat accuracy analog output burden error recognition rise time damping adjustable linearity devlation display (switching function) display (pressure) damping (display) short-circuit protection reverse polarity protection reverse polarity protection reverse polarity protection reverse polarity protection function grates the subject of the function operating temperature temperature drift degree of protection (EN 60529) connection connection (Sersing element) of 6%" A (outside thread) / SWZY / Forton-flush stainless steel membrane interface  o 200 Nand off delayed o 200 Nand off the final value o 200 Nand of the final value o 200 Nand off delayed o 200 Nand o	operating voltage	12 32V DC			
voltage drop (max. load)       < 2.0V DC	output current (max. load)	1A			
turn-on/off delay adjustment range switching point: 1 100% of the final value / release position: 0 99% of the final value repeat accuracy analog output burden error recognition rise time damping adjustable linearity deviation switching frequency  display (switching function) display (pressure) damping (display) short-circuit protection reverse polarity protection housing material pressure transducer material dimensions operating temperature temperature drift degree of protection (EN 60529) connection connection cessing element) GW" A (outside thread) / SW27 / front-flush stainless steel membrane interface  switching for the final value  10 20 90% of the final value) 10 20s 11 20s 11 20s 12 20s 13 20s 14 7-segment LED 24 20s 25 20s 26 20s 36 20s 3	current consumption (w/o load)	< 60mA			
adjustment range switching point: 1 100% of the final value / release position: 0 99% of the final value repeat accuracy	voltage drop (max. load)	< 2.0V DC			
repeat accuracy analog output burden error recognition rise time damping adjustable linearity deviation display (switching function) display (pressure) damping (display) short-circuit protection reverse polarity protection housing material pressure transducer material dimensions operating temperature temperature drift degree of protection (EN 60529) connection  M12-connector, 4-pin / 8-pin - see above connection (sensing element) G%" A (outside thread) / SW27 / front-flush stainless steel membrane interface  oyou of the final value anax. 120	turn-on/off delay	0 20s, on and off delayed			
analog output burden error recognition rise time damping adjustable linearity deviation switching frequency display (switching function) display (pressure) damping (display) short-circuit protection reverse polarity protection housing material dimensions operating temperature dimensions operating temperature operature drift degree of protection (EN 60529) connection  M12-connector, 4-pin / 8-pin - see above connection (sensing element) GY "A Outside thread) / SW27 / front-flush stainless steel membrane interface opto-adapter on USB + software AD000011	adjustment range	switching point: 1 100% of the final value / release position: 0 99% of the final value			
burden error recognition rise time 5ms (10 90% of the final value) damping adjustable 0 20s  linearity deviation max. ±0.25% of Pn switching frequency max. ±0.25% of Pn switching frequency max. ±25Hz  display (switching function) 2 x red LED  display (pressure) 4 x 7-segment LED  damping (display) 0 20s  short-circuit protection + reverse polarity protection + housing material PA6.6, polyester pressure transducer material stainless steel dimensions Ø 38x122mm operating temperature 2 -20 +80°C  temperature drift < ±0.2% / 10 K, (-10 +70°C) degree of protection (EN 60529) IP65  connection M12-connector, 4-pin / 8-pin - see above connection accessories e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire) connection (sensing element) G%" A (outside thread) / SW27 / front-flush stainless steel membrane interface	repeat accuracy	< ±0.1% of the final value			
error recognition rise time damping adjustable  linearity deviation switching frequency  display (switching function) display (pressure) damping (display) short-circuit protection reverse polarity protection  housing material pressure transducer material dimensions operating temperature temperature drift degree of protection (EN 60529)  connection  M12-connector, 4-pin / 8-pin - see above connection accessories connection (sensing element) interface  Gy" A (outside thread) / SW27 / front-flush stainless steel membrane interface  o 20s  max. ±0.25% of Pn  max. ±0.25% of Pn  switching lenent error  a 20s  max. ±0.25% of Pn  max. ±0.25% of Pn  switching value)  a 20s  a 20s  switching frequency  ### A country of the final value)  a 20s  switching value)  a 20s  a 20s  switching value)  a 20s  a 20s  switching frequency  ### A country of the final value)  a 20s  a 20s  a 20s  a 20s  a 20s  switching value  a 20s	analog output	0/4 20mA or 200/4mA			
rise time damping adjustable 0 20s  linearity deviation max. ±0.25% of Pn switching frequency max. 125Hz  display (switching function) 2 x red LED  display (pressure) 4 x 7-segment LED  damping (display) 0 20s  short-circuit protection +  reverse polarity protection +  housing material PA6.6, polyester  pressure transducer material stainless steel dimensions Ø 38x122mm  operating temperature 7-20 +80°C  temperature drift < ±0.2% / 10K, (-10 +70°C)  degree of protection (EN 60529) IP65  connection M12-connector, 4-pin / 8-pin - see above  connection accessories e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire)  connection (sensing element) G%" A (outside thread) / SW27 / front-flush stainless steel membrane interface opto-adapter on USB + software AD000011					
damping adjustable  linearity deviation  switching frequency  max. ±0.25% of Pn  switching frequency  max. 125Hz  display (switching function)  2 x red LED  display (pressure)  4 x 7-segment LED  damping (display)  0 20s  short-circuit protection  +  reverse polarity protection  +  housing material  PA6.6, polyester  pressure transducer material  dimensions  Ø 38x122mm  operating temperature  -20 +80°C  temperature drift  < ±0.2% / 10K, (-10 +70°C)  degree of protection (EN 60529)  IP65  connection  M12-connector, 4-pin / 8-pin - see above  connection accessories  e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire)  G%" A (outside thread) / SW27 / front-flush stainless steel membrane  interface  opto-adapter on USB + software AD000011	o and a second				
linearity deviation max. ±0.25% of Pn switching frequency max. 125Hz  display (switching function) 2 x red LED  display (pressure) 4 x 7-segment LED  damping (display) 0 20s  short-circuit protection +  reverse polarity protection +  housing material PA6.6, polyester  pressure transducer material stainless steel  dimensions Ø 38x122mm  operating temperature -20 +80°C  temperature drift < ±0.2% / 10K, (-10 +70°C)  degree of protection (EN 60529) P65  connection M12-connector, 4-pin / 8-pin - see above  connection accessories e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire)  G%" A (outside thread) / SW27 / front-flush stainless steel membrane interface opto-adapter on USB + software AD000011					
switching frequency  display (switching function)  display (pressure)  damping (display)  short-circuit protection  + reverse polarity protection  + housing material  pressure transducer material  dimensions  poperating temperature  -20 +80°C  temperature drift  degree of protection (EN 60529)  pressure transducer (EN 60529)  M12-connector, 4-pin / 8-pin - see above  connection accessories  e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire)  G½" A (outside thread) / SW27 / front-flush stainless steel membrane interface  opto-adapter on USB + software AD000011		* ··· =			
display (switching function)  display (pressure)  damping (display)  short-circuit protection  + reverse polarity protection  housing material  pressure transducer material  dimensions  operating temperature  cemperature drift  degree of protection (EN 60529)  connection  M12-connector, 4-pin / 8-pin - see above  connection accessories  e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire)  G%" A (outside thread) / SW27 / front-flush stainless steel membrane interface  opto-adapter on USB + software AD000011		max. ±0.25% of Pn			
display (pressure) damping (display) short-circuit protection + reverse polarity protection + housing material pressure transducer material dimensions operating temperature ctemperature drift degree of protection (EN 60529) connection  M12-connector, 4-pin / 8-pin - see above connection accessories connection (sensing element) connection (sensing element) interface  4 x 7-segment LED  0 20s  HAS-confection  Application  Applicat	switching frequency	max. 125Hz			
damping (display)  short-circuit protection  reverse polarity protection  +  housing material  pressure transducer material  dimensions  operating temperature  operating temperature  connection  multiple socket, VK205325 (4-wire)  connection (sensing element)  interface  opto-adapter on USB + software AD000011	display (switching function)	2 x red LED			
short-circuit protection + reverse polarity protection + housing material PA6.6, polyester pressure transducer material stainless steel dimensions Ø 38x122mm operating temperature temperature drift \$\ \text{20.2\%/10K, (-10 +70°C)}\$ degree of protection (EN 60529) IP65  connection M12-connector, 4-pin / 8-pin - see above connection accessories e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire) connection (sensing element) G½" A (outside thread) / SW27 / front-flush stainless steel membrane interface opto-adapter on USB + software AD000011	display (pressure)	4 x 7-segment LED			
reverse polarity protection + housing material PA6.6, polyester pressure transducer material stainless steel dimensions Ø 38x122mm operating temperature temperature drift < ±0.2% / 10K, (-10 +70°C) degree of protection (EN 60529) IP65  connection M12-connector, 4-pin / 8-pin - see above connection accessories e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire) connection (sensing element) G½" A (outside thread) / SW27 / front-flush stainless steel membrane interface opto-adapter on USB + software AD000011	damping (display)	0 20s			
housing material PA6.6, polyester  pressure transducer material stainless steel  dimensions Ø 38x122mm  operating temperature  -20 +80°C  temperature drift < ±0.2% / 10K, (-10 +70°C)  degree of protection (EN 60529)  IP65  connection M12-connector, 4-pin / 8-pin - see above  connection accessories e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire)  connection (sensing element) G½" A (outside thread) / SW27 / front-flush stainless steel membrane  interface opto-adapter on USB + software AD000011	ort-circuit protection +				
pressure transducer material dimensions  Ø 38x122mm operating temperature -20 +80°C temperature drift (< ±0.2% / 10K, (-10 +70°C) degree of protection (EN 60529)  IP65  connection M12-connector, 4-pin / 8-pin - see above connection accessories e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire) connection (sensing element) G½" A (outside thread) / SW27 / front-flush stainless steel membrane interface opto-adapter on USB + software AD000011	reverse polarity protection	+			
dimensions  Ø 38x122mm  operating temperature  -20 +80°C  temperature drift  < ±0.2% / 10K, (-10 +70°C)  degree of protection (EN 60529)  IP65  connection  M12-connector, 4-pin / 8-pin - see above  connection accessories  e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire)  connection (sensing element)  G½" A (outside thread) / SW27 / front-flush stainless steel membrane  interface  opto-adapter on USB + software AD000011	housing material	PA6.6, polyester			
operating temperature  -20 +80°C  temperature drift  < ±0.2% / 10K, (-10 +70°C)  degree of protection (EN 60529)  IP65  connection  M12-connector, 4-pin / 8-pin - see above  connection accessories  e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire)  connection (sensing element)  G½" A (outside thread) / SW27 / front-flush stainless steel membrane  interface  opto-adapter on USB + software AD000011	pressure transducer material	stainless steel			
temperature drift  < ±0.2% / 10K, (-10 +70°C)  degree of protection (EN 60529)  IP65  connection  M12-connector, 4-pin / 8-pin - see above  connection accessories  e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire)  connection (sensing element)  G½" A (outside thread) / SW27 / front-flush stainless steel membrane  interface  opto-adapter on USB + software AD000011	dimensions	Ø 38x122mm			
degree of protection (EN 60529)  connection  M12-connector, 4-pin / 8-pin - see above  connection accessories  e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire)  connection (sensing element)  G½" A (outside thread) / SW27 / front-flush stainless steel membrane  interface  opto-adapter on USB + software AD000011	operating temperature	-20 +80°C			
connection M12-connector, 4-pin / 8-pin - see above connection accessories e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire) connection (sensing element) G½" A (outside thread) / SW27 / front-flush stainless steel membrane interface opto-adapter on USB + software AD000011	temperature drift	< ±0.2% / 10K, (-10 +70°C)			
connection accessories e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire)  connection (sensing element) G½" A (outside thread) / SW27 / front-flush stainless steel membrane interface opto-adapter on USB + software AD000011	degree of protection (EN 60529)	IP65			
connection (sensing element)  G½" A (outside thread) / SW27 / front-flush stainless steel membrane interface  opto-adapter on USB + software AD000011	connection	M12-connector, 4-pin / 8-pin - see above			
interface opto-adapter on USB + software <b>AD000011</b>	connection accessories	e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire)			
·	connection (sensing element)	G½" A (outside thread) / SW27 / front-flush stainless steel membrane			
mounting accessories (clip)  AY000060	interface	opto-adapter on USB + software AD000011			
	mounting accessories (clip)	AY000060			

G1/2" A



article-no.	DW34311G	DW343116	DW343117
operating range	200bar	400bar	600bar
connection	4-pin	4-pin	4-pin
article-no.	DW34312G	DW343126	DW343127
operating range	200bar	400bar	600bar
connection	8-pin	8-pin	8-pin



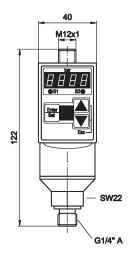


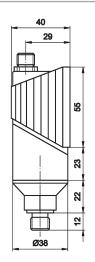
version	front-flush stainless steel membrane G½" A / see below - connection (sensing element)			
pressure range	see above			
pressure detection	peak value memory every 2ms			
output signal	pnp / analog (current output) / alarm output - see wiring diagram on following pags			
operating voltage	12 32V DC			
output current (max. load)	1A			
current consumption (w/o load)	< 60mA			
voltage drop (max. load)	< 2.0V DC			
turn-on/off delay	0 20s, on and off delayed			
adjustment range	switching point: 1 100% of the final value / release position: 0 99% of the final value			
repeat accuracy	< ±0.1% of the final value			
analog output	0/4 20mA or 200/4mA			
burden	max. $RL[\Omega] = (Ub-8V)/20mA$			
error recognition	in case of line break, overload, measurement error			
rise time	5ms (10 90% of the final value)			
damping adjustable	0 20s			
linearity deviation	max. ±0.25% of Pn			
switching frequency	max. 125Hz			
display (switching function)	2 x red LED			
display (pressure)	4 x 7-segment LED			
damping (display)	0 20s			
short-circuit protection	+			
reverse polarity protection	+			
housing material	PA6.6, polyester			
pressure transducer material	stainless steel			
dimensions	Ø 38x122mm			
operating temperature	-20 +80°C			
temperature drift	< ±0.2% / 10K, (-10 +70°C)			
degree of protection (EN 60529)	IP65			
connection	M12-connector, 4-pin / 8-pin - see above			
connection accessories	e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire)			
connection (sensing element)	G½" A (outside thread) / SW27 / front-flush stainless steel membrane			
interface	opto-adapter on USB + software AD000011			
mounting accessories (clip)	AY000060			





article-no.	DW35311K	DW35311D	DW35311F	DW353114
operating range	-1 +10bar	10bar	50bar	100bar
connection	4-pin	4-pin	4-pin	4-pin
article-no.	DW35312K	DW35312D	DW35312F	DW353124
operating range	-1 +10bar	10bar	50bar	100bar
connection	8-pin	8-pin	8-pin	8-pin



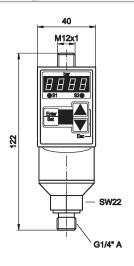


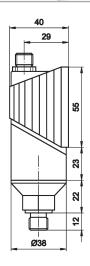
TECHNICAL DATA			
version	G¼"A / see below - connection (sensing element)		
p ressure range	see above		
pressure detection	peak value memory every 2ms		
output signal	pnp / analog (current output) / alarm output - see wiring diagram on following pages		
operating voltage	12 32V DC		
output current (max. load)	1A		
current consumption (w/o load)	< 60mA		
voltage drop (max. load)	< 2.0V DC		
turn-on/off delay	0 20s, on and off delayed		
adjustment range	switching point: 1 100% of the final value / release position: 0 99% of the final value		
repeat accuracy	< ±0.1% of the final value		
analog output	0/4 20mA or 200/4mA		
burden	max. $RL[\Omega] = (Ub-8V)/20mA$		
error recognition	in case of line break, overload, measurement error		
rise time	5ms (10 90% of the final value)		
damping adjustable	0 20s		
linearity deviation	max. ±0.25% of Pn		
switching frequency	max. 125Hz		
display (switching function)	2 x red LED		
display (pressure)	4 x 7-segment LED		
damping (display)	protection +		
short-circuit protection			
reverse polarity protection			
housing material	PA6.6, polyester		
pressure transducer material	stainless steel		
dimensions	Ø 38x122mm		
operating temperature	-20 +80°C		
temperature drift	< ±0.2% / 10K, (-10 +70°C)		
degree of protection (EN 60529)	IP65		
connection	M12-connector, 4-pin / 8-pin - see above		
connection accessories	e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire)		
connection (sensing element)	G¼"A (outside thread) / SW22		
interface	opto-adapter on USB + software AD000011		
mounting accessories (clip)	AY000060		



PRESSURE SENSORS 1000

article-no.	DW35311G	DW353116	DW353117
operating range	200bar	400bar	600bar
connection	4-pin	4-pin	4-pin
article-no.	DW35312G	DW353126	DW353127
operating range	200bar	400bar	600bar
connection	8-pin	8-pin	8-pin



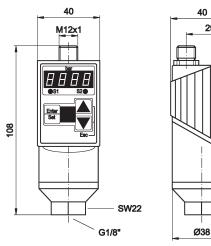


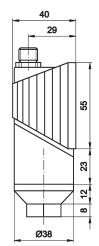
version	G%"A / see below - connection (sensing element)
pressure range	see above
pressure detection	peak value memory every 2ms
output signal	pnp / analog (current output) / alarm output - see wiring diagram on following pages
operating voltage	12 32V DC
output current (max. load)	1A
current consumption (w/o load)	< 60mA
voltage drop (max. load)	< 2.0V DC
turn-on/off delay	0 20s, on and off delayed
adjustment range	switching point: 1 100% of the final value / release position: 0 99% of the final value
repeat accuracy	< ±0.1% of the final value
analog output	0/4 20mA or 20 0/4mA
burden	max. R <sub>L</sub> [Ω] = (U <sub>b</sub> -8V)/20mA
error recognition	in case of line break, overload, measurement error
rise time	5ms (10 90% of the final value)
damping adjustable	0 20s
linearity deviation	max. ±0.25% of Pn
switching frequency	max. 125Hz
display (switching function)	2 x red LED
display (pressure)	4 x 7-segment LED
damping (display)	0 20s
short-circuit protection	+
reverse polarity protection	+
housing material	PA6.6, polyester
pressure transducer material	stainless steel
dimensions	Ø 38x122mm
operating temperature	-20 +80°C
temperature drift	< ±0.2% / 10K, (-10 +70°C)
degree of protection (EN 60529)	IP65
connection	M12-connector, 4-pin / 8-pin - see above
connection accessories	e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire)
connection (sensing element)	G¾"A (outside thread) / SW22
interface	opto-adapter on USB + software AD000011
mounting accessories (clip)	AY000060





article-no.	DW36311H	DW36311J	DW363110	DW363111
operating range	-0.5 +0.5bar	-1 +1bar	-1 0 bar	0 +1bar
connection	4-pin	4-pin	4-pin	4-pin
article-no.	DW36312H	DW36312J	DW363120	DW363121
operating range	-0.5 +0.5bar	-1 +1bar	-1 0bar	0 +1bar
connection	8-pin	8-pin	8-pin	8-pin





TECHNICAL DATA				
version	G <sup>1</sup> /8" / see below - connection (sensing element)			
pressure range	see above peak value memory every 2ms			
pressure detection				
output signal	pnp / analog (current output) / alarm output - see wiring diagram on following pages			
operating voltage	12 32V DC			
output current (max. load)	1A			
current consumption (w/o load)	< 60mA			
voltage drop (max. load)	< 2.0V DC			
turn-on/off delay	0 20s, on and off delayed			
adjustment range	switching point: 1 100% of the final value / release position: 0 99% of the final value			
repeat accuracy	< ±0.1% of the final value			
analog output	0/4 20mA or 200/4mA			
burden	max. RL [Ω] = (U <sub>b</sub> -8V)/20mA			
error recognition	in case of line break, overload, measurement error			
rise time	5ms (10 90% of the final value)			
damping adjustable	0 20s			
linearity deviation	max. ±0.25% of Pn			
switching frequency	max. 125Hz			
display (switching function)	2 x red LED			
display (pressure)	4 x 7-segment LED			
damping (display)	0 20s			
short-circuit protection	+			
reverse polarity protection	+			
housing material	PA6.6, polyester			
pressure transducer material	ceramic			
dimensions	Ø 38x122mm			
operating temperature	-20 +80°C			
temperature drift	< ±0.2% / 10K, (-10 +70°C)			
degree of protection (EN 60529)	IP65			
connection	M12-connector, 4-pin / 8-pin - see above			
connection accessories	e.g. M12-cable socket, VK205325 (4-wire) / VK205A25 (8-wire)			
connection (sensing element)	G¹/8" / SW22			
interface	opto-adapter on USB + software AD000011			
mounting accessories (clip)	AY000060			





#### comfortable software

At first glance, all functions can be seen straight away and are quickly changeable.

### graphical interface

The user interface of the software has an extremely clear graphical layout; this makes operation easy.

#### test function

The test function offers a simple and quick possibility to check the function of the device and/or the connected analyses. To allow this, each pressure value can be simulated using the operating

buttons or the PC software.

#### self-critical

The pressure sensor's automatic self-test indicates the following functions: Overshooting or undershooting of the measuring range, short circuit at output 1 / output 2, defective pressure monitor, internal fault, and analog output open. The onward transmission of the faults to the control can take place via the alarm or analog output.

#### very fast

Quick pressure peak detection is possible within 2ms.

#### tamper proof

The keypad lock can be engaged via the membrane keyboard or as a hard lock. The hardlock can only be operated via the software.

## data logging function

The software offers the opportunity to write measured values in an Excel table. Data logging can be triggered either time or measurement controlled.

## opto USB interface

Even during operation, you can communicate with the pressure sensor via the opto USB interface (galvanically separated).

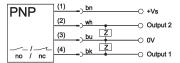


### 1000 PRESSURE SENSORS



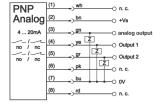
#### connection

#### 4-pin



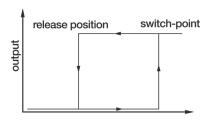
output 2, selectable between switching, analog and alarm output

#### 8-pin

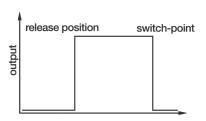


#### programmable switching functions

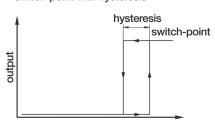
switch-point with release position



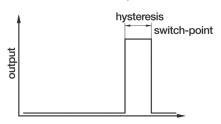
window function with release position



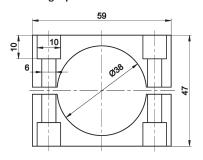
#### switch-point with hysteresis



#### window function with hysteresis



## mounting clip AY000060



## **ACCESSORIES**

ACCESSORIES		
article-no.	description	
AY000060	mounting clip, plastic	

This data sheet only contains the available standard variants. For other output / connection variants, we kindly ask that you contact us.

We are happy to supply the right cable socket for the plug equipment. You will find a list in the "accessories" section of the catalog under **ipf**-SENSORFLEX® "cable sockets" or in the search window on our homepage www.ipf-electronic.com (using the search term "VK").

Warning: Never use these devices in applications where the safety of a person depends on their functionality.