

Pulse meter IPM

For digital flow monitoring in oil circulation systems



Digital touch display



For monitoring of up to 45 lubrication points



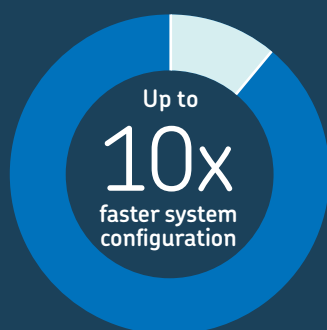
–20 to 60 °C
(–4 to 140 °F)



Easy installation and wiring



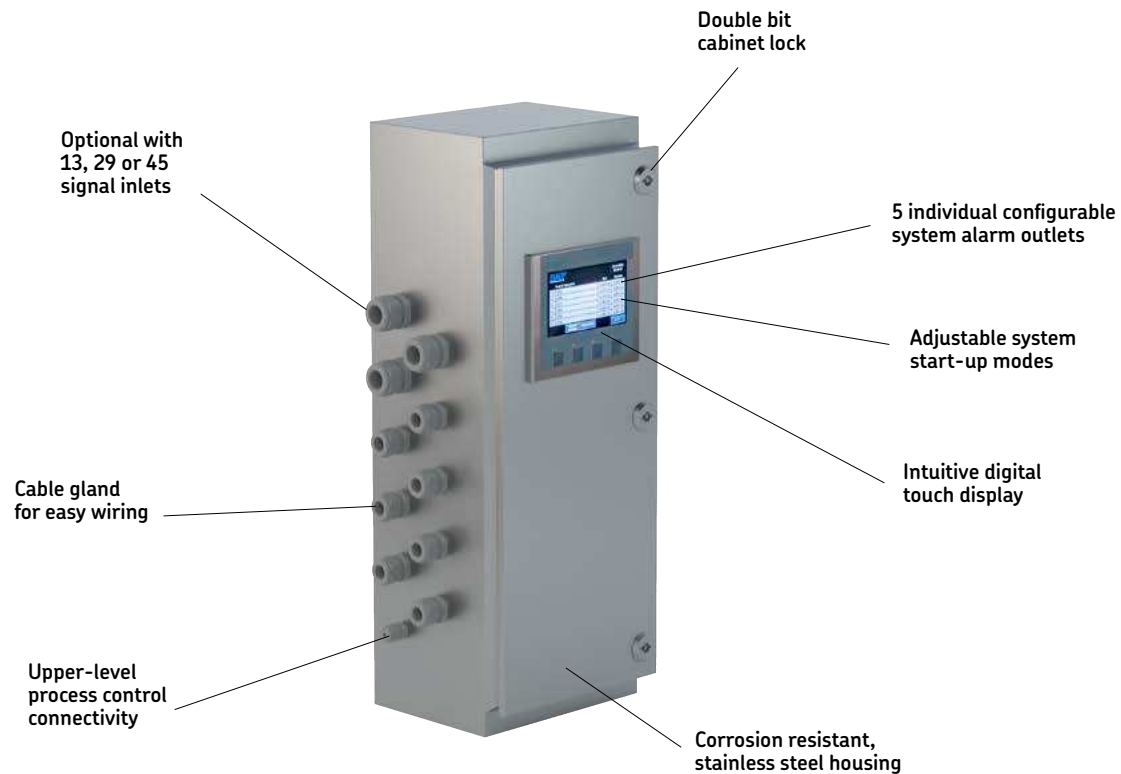
Optional ethernet connections



Applications

- Pulp and paper industry
- Mining, mineral processing
- Cement industry
- Metals industry

Product information



Description

IPM is a digital pulse metering panel to monitor flow rates in oil circulation systems. It can be operated combined with flow meters or flow limiters. The intuitive IPM touch display allows field configuration and individual parameters for up to 45 lubrication points. Each point is monitored against nominal flow value but can also have a reduced set point for startup period preventing unnecessary alarms. Besides informative local alarm messages, the panel offers five relay outputs with 15 different alarm combinations. Thanks to its modular design, IPM is optionally available with customized ethernet connections. IPM offers an excellent upgrade possibility for existing oil flow monitoring systems having pulse feed or static signals.

Features and benefits

- Easy wiring and installation
- Adjustable system start-up mode
- Upper-level process control connectivity
- Intuitive digital touch display with parameter set-up
- Real-time oil flow rate monitoring incl. alarm functions
- Excellent upgrade for existing pulse meter systems
- Compatible with SMD, SMB, SMBM and SFZM oil flow metering devices

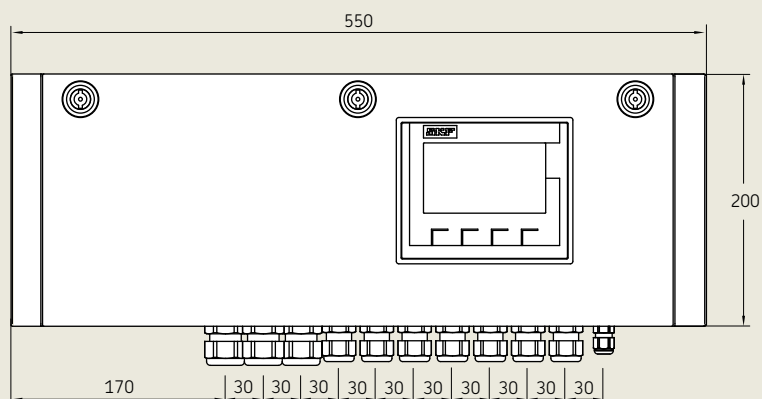
Technical data

Function	digital pulse meter
Operating temperature	–20 to 60 °C; –4 to 140 °F
Connection type	0,5 ... 6 mm ² push-in
Electrical data	
Supply voltage	100–120 V AC / 200–240 V AC ±10%
Frequency	50–60 Hz ±5%
Operating voltage	24 V DC ±2%
Power consumption	2 A
Ethernet options ¹⁾	Profinet, Profibus DP, OPC UA, etc.
Sensor types	PNP / NPN (2/3-wire sensor)
Amount of signal inlets	13, 29 or 45
Signal input types	pulse feed or static signals
Signal outputs	5× NO relays (potential free)
Switching voltage	max. 250 V AC/DC
Protection class	IP 65
Material	stainless steel 1.4404 (AISI 316L)
Dimensions	
IPM 13	550 × 200 × 175 mm 21.65 × 7.87 × 6.89 in
IPM 29	700 × 200 × 175 mm 27.55 × 7.87 × 6.89 in
IPM 45	900 × 200 × 175 mm 35.43 × 7.87 × 6.89 in
Mounting position	horizontal or vertical (depending on design)

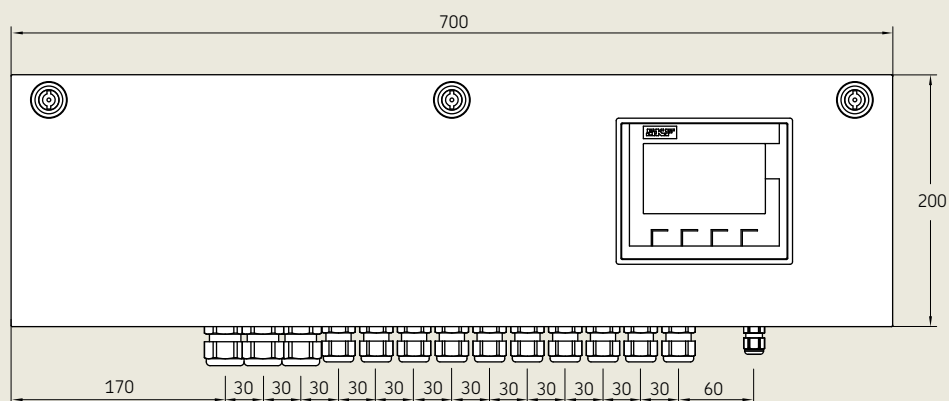
¹⁾ Standard design with 5 digital alarm outputs.
Ethernet extensions like Profinet, Profibus or others on request.

Drawings

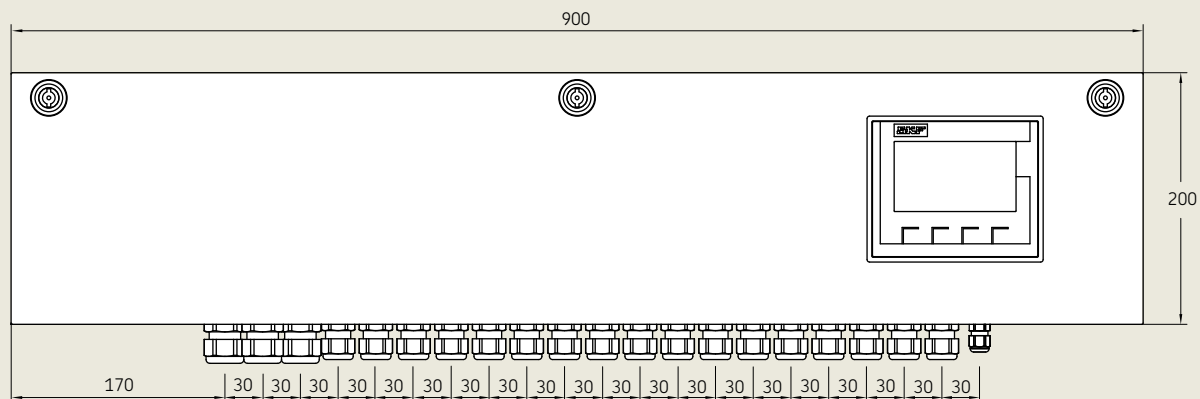
IPM 13



IPM 29



IPM 45



Order information and mounting options

IPM

Order number	Description	Electrical connection inlets	Dimensions	
		max.	mm	in
A765.78.001	IPM 13 horizontal ¹⁾	13	550 × 200 × 175	21.65 × 7.87 × 6.89
A765.78.004	IPM 13 vertical ¹⁾	13	200 × 550 × 175	7.87 × 21.65 × 6.89
A765.78.002	IPM 29 horizontal ¹⁾	29	700 × 200 × 175	27.55 × 7.87 × 6.89
A765.78.005	IPM 29 vertical ¹⁾	29	200 × 700 × 175	7.87 × 27.55 × 6.89
A765.78.003	IPM 45 horizontal ¹⁾	45	900 × 200 × 175	35.43 × 7.87 × 6.89
A765.78.006	IPM 45 vertical ¹⁾	45	200 × 900 × 175	7.87 × 35.43 × 6.89

¹⁾ Standard design with 5 digital alarm outputs. Ethernet extensions like Profinet, Profibus or others on request.

SKF flowmeter, flow limiter and metering devices

Device	Flow rate	
	l/min	pts/min
SFZM	0,09 – 8,00	0.19 – 17
SMD	0,10 – 40,00	0.20 – 84
SMBM	0,08 – 8,00	0.17 – 17
SMB 3	3,00 – 38,00	6.34 – 80
SMB 13	6,00 – 38,00	12.68 – 80
SMB 6	25,00 – 90,00	52.83 – 190
SMB 14	25,00 – 90,00	52.83 – 190
SFZ	6,00 – 180,00	12.68 – 380



Legs

Wall brackets

Hood mounting

Mounting options

- Cabinet installation combined with SKF flow limiters e.g.
- Easy and flexible panel installation with optional legs, wall brackets or hood mounting frame
- Different standard panel sizes for up to 45 lubrication points
- Panel material is stainless steel AISI316
- Options: supply piping assembly, panel with cover and lock

skf.com/lubrication | skf.com/IPM

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