Orange Research Inc.
140 Cascade Boulevard, Milford, Connecticut 06460
203 877-5657 800 989-5657 Fax: 203 783-9546
www.orangeresearch.com

Product specifications for model 1203

Product Specifications, with reed switches or relays

sensor type	piston
functions	**gauge/switch, switch**
min. range	0-5 psid
max. range	0-100 psid
max. line pressure	5000 psig , except 100 psig for PVC units ***For flange units consult engineering*
min. burst pressure	15000 psig , except 400 psig for PVC units ***For flange units consult engineering*
standard maximum temperature	gauge: 200°F standard, 150°F (plastic lens) , 120°F (PVC) gauge/switch: 176°F standard, 150°F (plastic lens) , 120°F (PVC) switch: 176°F standard, 140°F relay
high temperature construction	N/A
minimum temperature*	**Consult engineering for low-temperature applications.*
calibration accuracy**	±2% of full scale ascending after rap at room temperature ***Calibration accuracy is affected by temperature, and also by liquid-filling and follower-pointer options.*
repeatability	±2% of full scale
switch & enclosure	1 or 2 internal, NEMA 4X
switch adjustability	Upper 80% of full range ascending, or lower 80% of full range descending
switch differential	5-20% full scale
certification	CSA (File 043810), CE

Standard configuration options, with reed switches or relays

configuration	unless otherwise specified	standard options available
porting size	1/4" NPT	1/8" NPT, 1/2" NPT, AND, MS and 1" RF flange
porting orientation	in-line	N/A
direction of pressure	left to right	right to left (reverse porting)
calibration medium	all units with EPDM seals: water all others: alum or SS: hydraulic oil brass or PVC: water	N/A
switches & relays	(must be specified)	-A (0.7A/50W SPST) -B (0.25A/3W SPST) -C (0.25A/3W SPDT) -R2 (relay, 10A @ 120 VAC)
switch/relay setting	set at top of range ascending set N/O to close (SPST reed) set to actuate (SPDT reed, relay)	other set points within adjustability ascending or descending
primary wetted parts material	(must be specified)	aluminum, 316SS, naval brass, PVC
secondary wetted parts material	range spring: 302SS magnet: ceramic piston seal: Teflon	Teflon-coated spring and magnet
static seals	buna-N	Viton,Teflon,neoprene,EPDM,fluorosilicone
lens	glass	plastic
dial sizes	(must be specified)	2.5", 3.5", 4.5", 6"
dial case styles+	(must be specified) +*C-clamp not available*	bezel case (2.5", 3.5", 4.5") drilled flange (all sizes) machined case (3.5", 4.5", 6")
starting mark on dial	approximately 10% of full scale	N/A

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Product specifications for model 1203

Product Specifications, with transducer

sensor type	piston
functions	**gauge/transducer, transducer**
min. range	0-5 psid
max. range	0-100 psid
max. line pressure	5000 psig ***For flange units consult engineering*
min. burst pressure	15000 psig ***For flange units consult engineering*
standard maximum temperature	gauge/transducer: 200°F (glass lens), 150°F (plastic lens) transducer: 200°F
high temperature construction	N/A
minimum temperature	32°F
calibration accuracy**	±3% of full scale ascending after rap at room temperature ***Calibration accuracy is compensated for temperature effects between 32°F - 200°F*
repeatability	±2% of full scale
transducer enclosure	NEMA 4X
relay adjustability	upper 90% of full range ascending, or lower 90% of full range descending
relay differential***	****Consult engineering*
certification	none

Standard configuration options, with transducer

configuration	unless otherwise specified	standard options available
porting size	1/4" NPT	1/8" NPT, 1/2" NPT, AND, MS and 1" RF flange
porting orientation	in-line	N/A
direction of pressure	left to right	right to left (reverse porting)
calibration medium	all units with EPDM seals: water all others: alum or SS: hydraulic oil brass : water	N/A
relays	2 relays: 2A/30W/60VDC 2A/60VA/120VDC	N/A
electronic outputs	analog outputs: 0-5 VDC 4-20 mA 0-1000 Hz digital outputs: RS232 formatted to full range	analog outputs: 1-5 VDC digital outputs: RS 232 customized
primary wetted parts material	(must be specified)	aluminum, 316SS, naval brass
secondary wetted parts material	range spring: 302SS magnet: ceramic piston seal: Teflon	Teflon-coated spring and magnet
static seals	buna-N	Viton, Teflon, neoprene, EPDM, fluorosilicone
lens	glass	plastic
dial sizes	(must be specified)	2.5", 3.5", 4.5", 6"
dial case styles+	(must be specified) +*C-clamp not available*	bezel case (2.5", 3.5", 4.5") drilled flange (all sizes) machined case (3.5", 4.5", 6")
starting mark on dial	approximately 10% of full scale	N/A