

Pressure IPI - Industrial Pressure Indicator

Features

Digital indicator for use as a process indicator or comparator
3 models, 6 system configurations, 10 ranges including vacuum
Made to withstand in-process conditions
Large, backlit, easy-to-read display
18 engineering units including a custom unit
Reads pressure and indicates temperature
Available in lower or back mount with battery or external power



Benefit

The IPI is a durable pressure indicator that offers the technology of a digital device in a familiar package.

Specifications

Digital Pressure Calibrator

Model:	IPI015C		IPI030C		IPI100C
Pressure range:	vacuum to 15 psi (1 bar)		vacuum to 30 psi (2 bar)		vacuum to 100 psi (7 bar)
Model:	IPI300C		IPI500C		
Pressure range:	vacuum to 300 psi (21 bar)		vacuum to 500 psi (35 bar)		
	0 to 1,000 psi (70 bar)	0 to 2,000 psi (140 bar)	0 to 3,000 psi (200 bar)	0 to 5,000 psi (350 bar)	0 to 10,000 psi (700 bar)
Accuracy (pressure):	±0.050% F.S.				
Accuracy (vacuum):	±0.250% F.S.				
Test connection:	1/4" NPT male lower mount (standard) - 1/4" NPT male back mount (available)				
Adapters included:	1/4" BSP male				
Engineering units:	psi, bar, mbar, kPa, kg/cm ² , cmH ₂ O @ 4°C, cmH ₂ O @ 20°C, mH ₂ O @ 4°C, cmH ₂ O @ 20°C, inH ₂ O @ 4°C, inH ₂ O @ 20°C, inH ₂ O @ 60°F, mmHg @ 0°C, inHg @ 0°C, ftH ₂ O @ 4°C, ftH ₂ O @ 20°C, ftH ₂ O @ 60°F, Torr, User definable				
Cases:	Boot supplied with standard configurations				
Display:	Large, backlit LCD with icons and bar graph				
Display update:	Twice per second				
Resolution:	5 digit with floating point (range dependent)				
Communications:	RS232				

General

Power:	(3) AA 1.5 VDC alkaline
Battery life:	1,500 hours (without backlight)
Battery low alarm:	7 VDC
External power:	24 VDC (optional)
Auto shutdown:	30 minutes (user selectable)
Overpressure alarm:	OL on display at 120% of F.S.
Overpressure rating:	120 to 300% of F.S. (range dependent)
Size (indicator) (H x W x D):	4.375 x 5.0 x 1.5 in (11.11 x 12.7 x 3.81 cm)
Weight:	1.6 lb (0.7 kg)
Conformity:	CE EN 61326:1998 - NEMA 4 / IP65 design (case)
Configurations:	Digital pressure indicator as indicator or complete test system with pressure source
Delivery:	Indicator, boot (configuration dependent) adapter, and traceable certification (systems also include pressure source, fittings, and hard carrying case for all components)

Notes See specification sheet IPI-SS-CP-2179

Pressure IPI - Industrial Pressure Indicator

Ordering information

USD List Order number Description

Base model - 1st through 7th characters All 14 characters are used - no dashes or spaces

\$780	IPI015C	Combination vacuum to 15 psi (vacuum to 1 bar) with standard accessories
\$780	IPI030C	Combination vacuum to 30 psi (vacuum to 2 bar) with standard accessories
\$780	IPI100C	Combination vacuum to 100 psi (vacuum to 7 bar) with standard accessories
\$780	IPI300C	Combination vacuum to 300 psi (vacuum to 21 bar) with standard accessories
\$780	IPI500C	Combination vacuum to 500 psi (vacuum to 35 bar) with standard accessories
\$780	IPI01KG	Gauge 0 to 1,000 psi (0 to 70 bar) with standard accessories
\$780	IPI02KG	Gauge 0 to 2,000 psi (0 to 140 bar) with standard accessories
\$780	IPI03KG	Gauge 0 to 3,000 psi (0 to 200 bar) with standard accessories
\$780	IPI05KG	Gauge 0 to 5,000 psi (0 to 350 bar) with standard accessories
\$880	IPI10KG	Gauge 0 to 10,000 psi (0 to 700 bar) with standard accessories

Boot option - 8th character

No adder	B	Boot - standard delivery (standard on indicators with battery power and lower mounting and with all System kits)
-\$30	X	No boot (standard on indicators with external power and/or back mounting)

Power option - 9th character

No adder	X	Batteries - standard delivery
\$125	E	Connection for external 24 VDC power supply

Mounting option - 10th character

No adder	X	Lower mount - standard delivery
\$150	B	Back mount

Combination option - 9th and 10th characters

\$240	EB	Connection for external 24 VDC power supply and lower mount (discounted when both options are ordered together)
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Configuration - 11th through 13th characters

No adder	IND	Indicator only (with standard accessories) - standard delivery
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Certification - 14th character

No Adder	G	NIST traceable certificate - standard delivery
Quotation	H	Accredited certificate

Sample

\$780	IPI01KGBXINDG	IPI01KG with standard boot, battery, and lower mount options indicator only configuration, with NIST traceable certification
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Ordering information

USD List Order number Description

Base model - 1st through 10th characters **All 14 characters are used - no dashes or spaces**
(indicators with boot, battery power, and lower mounting and with all System kits)

\$780	IPI015CBXX	Combination vacuum to 15 psi (vacuum to 1 bar) with standard accessories
\$780	IPI030CBXX	Combination vacuum to 30 psi (vacuum to 2 bar) with standard accessories
\$780	IPI100CBXX	Combination vacuum to 100 psi (vacuum to 7 bar) with standard accessories
\$780	IPI300CBXX	Combination vacuum to 300 psi (vacuum to 21 bar) with standard accessories
\$780	IPI500CBXX	Combination vacuum to 500 psi (vacuum to 35 bar) with standard accessories
\$780	IPI01KGBXX	Gauge 0 to 1,000 psi (0 to 70 bar) with standard accessories
\$780	IPI02KGBXX	Gauge 0 to 2,000 psi (0 to 140 bar) with standard accessories
\$780	IPI03KGBXX	Gauge 0 to 3,000 psi (0 to 200 bar) with standard accessories
\$780	IPI05KGBXX	Gauge 0 to 5,000 psi (0 to 350 bar) with standard accessories
\$880	IPI10KGBXX	Gauge 0 to 10,000 psi (0 to 700 bar) with standard accessories

Configuration - 11th through 13th characters

\$605	AXX	System A (indicator with standard accessories, T-730 or T-740 handpump, fittings, and aluminum case for all components) IPI015C to IPI300C only
\$635	AVX	System A (indicator with standard accessories, T-750 handpump, fittings, and aluminum case for all components) IPI015C to IPI300C only
\$675	BXX	System B (indicator with standard accessories, T-910 handpump, fittings, and aluminum case for all components) IPI300C and IPI500C only
\$385	CXX	System C (indicator with standard accessories, T-620 or T-620H handpump, fittings, and aluminum case for all components) IPI500C to IPI05KG only
\$900	DOX	System D with oil (indicator with standard accessories, 65-P016 screw pump, fittings, and aluminum case for all components) IPI500C to IPI05KG only
\$900	DWX	System D with water (indicator with standard accessories, 65-P017 screw pump, fittings, and aluminum case for all components) IPI500C to IPI05KG only
\$2,230	EXX	System E (indicator with standard accessories, 65-P014 jack pump, fittings, and aluminum case for all components) IPI01KG to IPI10KG only
\$2,020	FWB	System F with water and Buna N (indicator with standard accessories, T-1 pump, fittings, and aluminum case for all components) IPI500G to IPI10KG only
\$2,550	FWV	System F with water and VITON (indicator with standard accessories, T-1/VITON pump, fittings, and aluminum case for all components) IPI500G to IPI10KG only
\$2,550	FEW	System F with water and EPT (indicator with standard accessories, T-1/EPT pump, fittings, and aluminum case for all components) IPI500G to IPI10KG only
\$2,020	FOB	System F with oil and Buna N (indicator with standard accessories, T-1/OIL pump, fittings, and aluminum case for all components) IPI500G to IPI10KG only
\$2,550	FOV	System F with water and VITON (indicator with standard accessories, T-1/OIL/VITON pump, fittings, and aluminum case for all components) IPI500G to IPI10KG only
\$2,550	FOE	System F with water and EPT (indicator with standard accessories, T-1/EPT/OIL pump, fittings, and aluminum case for all components) IPI500G to IPI10KG only

Certification - 14th character

No Adder	G	NIST traceable certificate - standard delivery
Quotation	H	Accredited certificate

Notes See specification sheet IPI-SS-CP-2179

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Manuals

\$2	SPK-IPI-001	Operating manual - IPI series
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Carrying cases

\$30	SPK-IPI-003	Protective boot - IPI series
\$299	124109	Carrying case - APC, CPC, and IPI series System A
\$299	124110	Carrying case - APC, CPC, and IPI series System B
\$327	124299	Carrying case - APC and IPI series System C
\$424	124301	Carrying case - APC and IPI series System D
\$424	124303	Carrying case - APC and IPI series System E
\$524	124304	Carrying case - APC and IPI series System F

RS232 cable

\$20	123958	Stereo jack to serial cable
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O-ring and repair kits

\$43	T-250	Pump rebuild kit - Type T Buna N (standard material)
\$165	T-559	Pump rebuild kit - Type T VITON (optional material)
\$165	T-326	Pump rebuild kit - Type T EPT (optional material)
\$49	T-656	Pump rebuild kit - T-620
\$33	T-746	Pump rebuild kit - T-730 and T-740
\$24	T-747	Pump rebuild kit - T-750
\$205	75P012	Pump rebuild kit - T-910

Tester oil

\$25	MGAAA/QT	Tester oil - 1 qt (0.95 l)
\$50	MGAAA/GL	Tester oil - 1 gal (3.79 l)
\$10	WG-110	Oil dispenser

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Fittings, adapters, unions, plugs, tubing, and hoses

\$87	T-873	Swivel fitting for pneumatic handpump (replacement to 3/8" BSP female)
\$76	T-878	Swivel fitting for hydraulic handpump (replacement to 1/8" NPT female)
\$138	SPK-HPC-001	Quick connector fitting for System B - <i>CPC200C and APC200C</i> (1/8" NPT male x 3/8" BSP male)
\$121	SPK-HPC-002	Quick connector fitting for System A (1/8" NPT male x 1/4" NPT female swivel)
\$140	SPK-HPC-003	Quick connector fitting for System B - <i>APC500G</i> (1/8" NPT female x 3/8" BSP male)
\$43	SPK-HPC-004	Banjo house fitting kit for Systems D & E (block, (2) bolts 1/4" BSP male x 1/4" BSP male)
\$185	50-REP 615	Quick disconnect set (BSP male and female 10,000 psi (700 bar))
\$69	60R900	Quick disconnect (1/4" BSP male - included in 50-REP 615)
\$151	60R910	Quick disconnect (1/4" BSP female - included in 50-REP 615)
\$7	60R912	Quick disconnect (1/4" BSP male plug - included in 50-REP 615)
\$216	65R191	BSP fittings and tape (1/4" BSP male x 1/8", 3/8", and 1/2" BSP female)
\$216	65R192	NPT fittings and tape (1/4" BSP male x 1/8", 3/8", and 1/2" NPT female)
\$17	11-90067	Adapter (1/8" NPT male x 1/4" NPT male)
\$34	11-90109	Adapter (1/4" NPT female x 1/4" BSP male)
\$9	11-90110	Adapter (1/8" NPT female x 1/4" BSP male)
\$36	11-90111	Adapter (1/8" NPT female x 1/4" NPT female)
\$17	60R110	Adapter (1/4" BSP male x 1/4" BSPT male)
\$17	60R111	Adapter (1/4" NPT male x 1/4" BSP male)
\$15	60R166	Adapter (quick connector 3/8" BSP female x 1/4" BSP female)
\$17	60R168	Adapter (1/4" BSP female x 1/4" BSP male)
\$35	60R173	Adapter (1/4" BSP male x 1/4" NPT female 1,500 psi (103.4 bar))
\$15	60R178	Adapter (quick connector 3/8" BSP female x 1/4" NPT female)
\$42	60R970	Adapter (1/4" BSP male x 1/4" NPT female)
\$41	T-786	Adapter (1/4" NPT male x 1/4" BSP female)
\$41	T-787	Adapter (1/4" NPT male x 1/2" BSP female)
\$19	T-870	Adapter (1/8" NPT male x 1/4" BSP male)
\$4	60R955-F	Plug (1/4" BSP male - for use with screw pump and jack pump manifolds)
\$17	12-90135	Union (1/8" NPT male x 1/8" NPT male)
\$21	12-90136	Union (1/4" NPT male x 1/4" NPT male)
\$17	60R115	Union (1/4" BSP male x 1/4" BSP male - included in 50-REP 615)
\$39	T-134	Union body (15/16-20 UNEF male x 1/4" NPT female)
\$52	T-135	Union body (15/16-20 UNEF male x 1/2" NPT female)
\$41	T-186	Union body (15/16-20 UNEF male x 7/16" NPT female)
\$30	T-863	Union body (15/16-20 UNEF male x 1/8" NPT female)
\$216	65-R975	Reservoir kit (screw pump - including seals)
\$47	60R135	Isolation valve (reservoir)
\$320	60P013	Vernier valve (screw pump or jack pump)

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Fittings, adapters, unions, plugs, tubing, and hoses

\$231	60I156	Hose (4.9 ft (1.5 m) 1/4" BSP female x 1/4" BSP female 10,000 psi (700 bar))
\$612	60I157	Hose (16.4 ft (5 m) 1/4" BSP female x 1/4" BSP female 10,000 psi (700 bar))
\$121	65P175	Hose (3.3 ft (1 m) 1/4" BSP female x 1/4" BSP female 5,000 psi (350 bar))
\$121	65P180	Hose (6.6 ft (2 m) 1/4" BSP female x 1/4" BSP female 5,000 psi (350 bar))
\$83	KH-18	Hose (1.5 ft (0.46 m) 1/4" NPT male x 1/4" NPT male 10,000 psi (700 bar))
\$33	65N000	Tube (4.7 in (120 mm) 1/4" BSP male x 1/4" BSP male)
\$3	60I104	Roll of Teflon tape
\$1	10-90000	O-Ring for quick connector (SPK-HPC-001, 002, and 003)
\$2	10-90006	O-Ring for swivel fitting (T-873 and T-878)
\$3	10-90204	Back up ring System C swivel fitting (T-878)
\$2	21-90018	Snap ring for quick connector (SPK-HPC-001, 002, and 003)
\$2	10I549	Bonded seal (1/2")
\$2	60R120	Bonded seal (1/4")
\$2	60R122	Bonded seal (1/8")
\$7	60R191	Set of seals for fitting kits (65R191and 65R192)

Tools

\$3	T-180	Hex key (tee handle 5/32")
\$71	T-182	Wrench (5/8" X 3/4")
\$58	T-184	Wrench (1 1/8")
\$8	T-204	Hex key (tee handle 3/16")
\$14	T-239	Hex key (tee handle 1/4")
\$122	1GT-99	Gauge pointer puller set
\$4	60R159	Allen wrench (6 mm for use with 60R955)

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