

DIFFERENTIAL PRESSURE GAUGE WITH SWITCH

DIAPHRAGM SENSING & BELLOW SENSING

Effex
INDUSTRIALSOLUTIONS

MODEL CODE : EDIS

SPECIAL FEATURES

- GENERAL PURPOSE DIFFERENTIAL PRESSURE MEASUREMENT
- SENSING ELEMENT OF DIAPHRAGM / BELLOW
- WETTED PARTS IN SS316 / SS316L / SS316+PTFE / MONEL / HASTELLOY-C
- NON-WETTED PARTS & CASE IN STAINLESS STEEL
- ACCURACY $\pm 2\%$ FSD (DIAPHRAGM) / $\pm 1\%$ FSD (BELLOW)
- SPAN OF DIAL MARKING AT 270 DEG ANGLE, EVEN FOR VERY LOW RANGES



APPLICATION

DIFFERENTIAL PRESSURE GAUGE WITH SWITCH ARE DESIGNED TO USE IN PUMPS, COMPRESSORS, LUBRICATION SYSTEMS, TURBINES, GENERATORS, BOILERS, FURNANCES ETC. IN INDUSTRIES SUCH AS CHEMICAL, FERTILIZER, FERROUS & NON-FERROUS METAL, PULP & PAPER, POWER, WASTE WATER TREATMENT, REFINERY & PETROCHEMICAL, SYNTHETIC FIBRE, ETC.

SPECIFICATIONS

Dial	: 100 mm (Diaphragm Only) / 150 mm, Aluminium, white background, black markings
Case	: SS304 as standard (SS316 on request) with bayonet bezel
Accuracy	: $\pm 2\%$ FSD (Diaphragm) / $\pm 1\%$ FSD (Bellow)
Switching Accuracy	: $\pm 1.5 - 2\%$ FSD
Temperature Suitability	: (-)20° C to (+)60° C
Protection	: Weatherproof to IP-68 (IS:13947 Part I / IEC:60529)
Window	: Safety glass (Shatter proof / Toughened glass)
Pointer	: Pointer Light weight, micrometer adjustable
Sensing element	: Diaphragm / Bellow
Wetted Parts	: SS316 / SS316L / SS316+PTFE / Monel / Hastelloy-C
Process Connection	: 1/4" NPT (F) as standard (other on request)
Blow out disc	: Provided (top of the case)
Movement	: SS304 as standard (SS316 on request)
Range	: As per requirement (min 0 to 1000 mmWC)
Set Point	: Adjustable throughout the Range
Switch	: 1 SPDT / 2 SPDT . Snap acting micro-switch (DPDT on request) Rated 5A @ 230 VAC (3A @ 28 VDC)
Cable Entry	: 1/2" NPT (F) (Other on request)
Mounting	: Surface Mounting
Optional	: Diaphragm Seal with Capillary

DIFFERENTIAL PRESSURE GAUGE WITH SWITCH

DIAPHRAGM SENSING & BELLOW SENSING



MODEL CODE : EDIS

HOW TO ORDER

BASIC MODEL

CODE

NOMINAL SIZE

10 100 MM 15 150 MM

MOUNTING

- 1 WALL / SURFACE / PROJECTION MOUNTING WITH BOTTOM ENTRY
2 DIRECT BOTTOM ENTRY
6 2" PIPE / YOKE MOUNTING BOTTOM ENTRY (Mounting bracket will be provided of steel epoxy painted.)
12 CENTER BACK ENTRY WITH FRONT FLANGE (Suitable for High Pressure Chamber Only)

GAUGE CONNECTION (Though adaptors)

4BM 1/4" NPT (M) x 1/2" BSP (M) X 2 Nos. 4NM 1/4" NPT (M) x 1/2" NPT (M) X 2 Nos. 2NF 1/4" NPT (F) (Standard)*

* These female connections are directly provided on chamber.

Note : Connections like Metric / PT / PF / Flaired / UNF / G / R etc can be provided on request.

DIAPHRAGM / BELLOW

UJ AISI 316L SS (Standard) UM MONEL

SEAL CHAMBER / SOCKET

CY AISI 304 SS (Standard) RB AISI 316 SS RD MONEL

RANGE

REFER RANGE TABLE

OPTIONS

PS	AISI 316 SS CASE & BEZEL	RZ	TOUGHENED GLASS
PW	FIVE POINT CALIBRATION CERTIFICATE	RH	CUSTOM DESIGNED DIAL
PY	DAMPENING LIQUID GLYCERINE FILLED	RW	PLEXI GLASS
QA	DAMPENING LIQUID SILICON OIL**	SW	DIAL TAG MARKING
GH	MATERIAL TEST CERTIFICATES#	SX	SS TAG PLATE
SJ	MAXIMUM READING POINTER WITH PLEXI GLASS (FOR DRY VERSION)*	TF	TESTED TO NACE STANDARDS
JU	2" PIPE/YOKE MOUNTING BRACKET & 'U' CLAMP (AISI 304 SS)	ZZ	DIELECTRIC OIL FILLED**
FN	2" PIPE/YOKE MOUNTING BRACKET & 'U' CLAMP (AISI 316 SS)		

*For ranges 2.5 BAR and above.

**Gasket & Plug of NBR. Refer Price List for Viton.

#MATERIAL TEST CERTIFICATES WILL BE PROVIDED FOR WETTED PARTS ONLY WITH CHEMICAL COMPOSITION TESTING. FOR OTHERS, PLEASE CONSULT FACTORY.

ELECTRIC CONTACTS

(FOR DRY VERSION, WITH INGRESS PROTECTION UP TO IP55 & POLY CARBONATE DOME AS A WINDOW)

A) SINGLE INSULATED MAGNETIC SNAP ACTION TYPE*

(230 V AC, 1 Amp.) (48 V DC, 0.5 Amp.)

(AVAILABLE FOR 1 BAR & ABOVE)

B) INDUCTIVE TYPE (220 V AC, 0.4 Amp.)

(AVAILABLE FOR 1000 mmWC & ABOVE)

RJ	Single; NORMALLY CLOSED (1 NC)	YW	Single; NORMALLY OPEN (1 NO)
RK	Double; NORMALLY CLOSED + NORMALLY OPEN (1 NC + 1 NO)	YV	Single; NORMALLY CLOSED (1 NC)
RL	Single; NORMALLY OPEN (1 NO)	YX	Double; NORMALLY CLOSED + NORMALLY OPEN (1 NC + 1 NO)
RM	Double; NORMALLY OPEN + NORMALLY CLOSED (1 NO + 1 NC)	YY	Double; NORMALLY OPEN (BOTH NO)
RN	Double; NORMALLY CLOSED (BOTH NC)	YZ	Double; NORMALLY CLOSED (BOTH NC)
RO	Double; NORMALLY OPEN (BOTH NO)	ZA	Double; NORMALLY OPEN + NORMALLY CLOSED (1 NO + 1 NC)
RU	BOOSTER WITH RELAY FOR CURRENT UPTO 5 Amp.	RC	DPDT
RA	SPDT		

*FOR DOUBLE INSULATED ELECTRICAL CONTACTS, CONSULT FACTORY FOR PRICE & DELIVERY.

Example

EDIS

X

X
OR
XX

XXX

XX

XX

0 - 2
BAR / PSI
XX

XX

Ordering Example : EDIS - X - X OR XX - XXX - XX - XX - 0/2 BAR/PSI - XX - XX

FOR DIAPHRAGM SEALS, VALVES & MANIFOLDS, REFER INDIVIDUAL DATA SHEETS.

(THE CAPILLARY LENGTH SHALL BE MAXIMUM UP TO 3 METERS & RANGE SHALL BE ABOVE 1 BAR/PSI.)

Note : Specifications and dimensions given in this product catalogue represents the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.