

Pressure Measurement & Control  
Temperature Measurement & control  
80 kg/cm<sup>2</sup>

Flameproof  
Simplex

K Type  
Pt 100  
Triclover  
Relay  
Portable Instruments

**aaavad<sup>©</sup>**  
**INSTRUMENT**

Flow Measurement & Control

Cable  
Process Control Instrument  
Duplex  
RTD

value of words

# We Are Thankful To



Serving 1050+ Clientele  
Since 2009

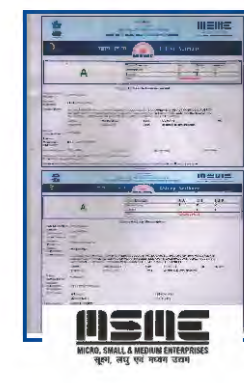
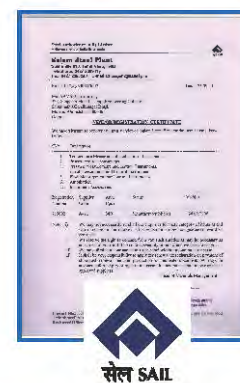
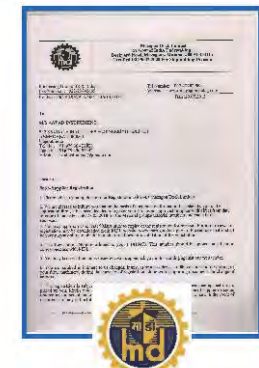
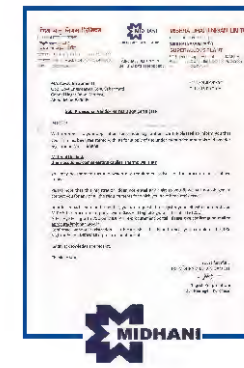
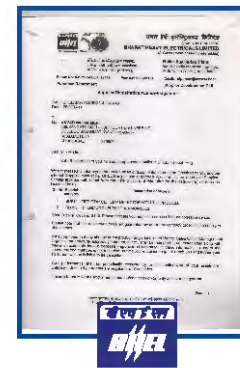
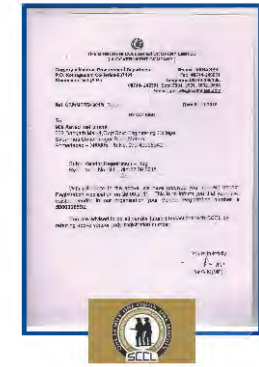
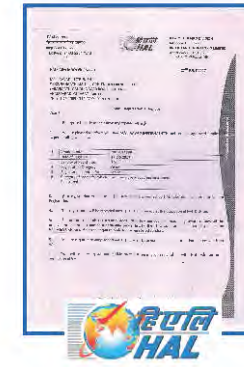
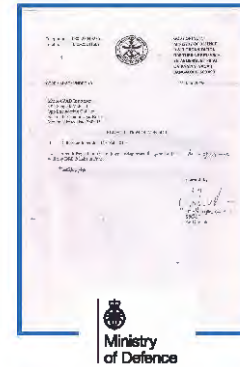
# Introduction

AAVAD Instrument (ISO 9001:2008) is a next generation young entrepreneurship engineering firm and leading manufacturer & supplier of measuring instruments like Temperature, Pressure, Flow, Level, Analytical, Automation, and Panel Mfg. & Instrumentation Cables. The organization has started its journey in 2009. With the steady pace and its exponential growth it has become industry leader within a very short span of time. Starting from product supplier, we are emerging as a one-stop engineering window in the industry with 1050+ customers across the globe. With a significant year on year growth, AAVAD has built strength of executing customized solutions.

We help our customers in adopting technology advancement to maximize their Return on Investment with zero-tolerance qualitative approach

We are committed to maintain high standards of quality across the engineering and technology industry. It shall be achieved through customer satisfaction by ensuring consistency in our products with on-time delivery and after sales support.

# Approvals





 Sabarmati Gas	 PETRONET LNG LIMITED	 हिंदियनऑयल
 Reliance Industries Limited	Oil, Gas & Petroleum	 गैल GAIL
 adani™	 HP	 ओएनजीसी ongc
 एन एफ एल NFL	 MCF	 Gokul AGRO RESOURCES LTD.
 FMC	Fertilizers & agricultural	 GSP
 JAYANT AGRO ORGANICS LTD.	 Coromandel FUTURE POSITIVE	 RALLIS INDIA LIMITED A TATA Enterprise
 PEPSICO	 Coca-Cola	 Amul
 Vadhalal ICE CREAM PURE VEGETARIAN	Food & Dairy	 Havmor ICE CREAM
 MOTHER DAIRY	 Dudhsagar The Pride of India	
 Sintex SINCE 1975	 SHUBHALAKSHMI	 RUBBER KING
 apollo	Plastic & rubber	 POLYCAB WIRES & CABLES
 ASTRAL PIPES	 Plastene India Limited	 DUTRON®
INDUSTRY SERVED		
 dishman	 torrent PHARMA	 INTAS
 LUPIN PHARMACEUTICALS, INC.	Pharma	 F
 amneal	 CADILA PHARMACEUTICALS LIMITED	 Unique Pharma
 ADANI	 CGPL Coastal Gujarat Power Limited	 GAR
 SASAN POWER	Power plant	 TATA POWER
 torrent POWER	 WELSPUN Date to Commit Welspun Energy Ltd.	 नएनटीपीसी NTPC
 VISA STEEL	 MIDHANI	 JSW
 Adhunik	Metal / Steel	 ELECTROTHERM™
 ESSAR STEEL	 WELSPUN PIPE AND PLATES	 SANDVIK
IRAQ	BANGLA- DESH	OMAN
DUBAI	Export	SOUTH AFRICA
UAE	SRILANKA	VIETNAM



		
	Chemical	
		

		
	Textile	
		

		
	Glass	
		

		
	Cement	
		

INDUSTRY SERVED		
-----------------	--	--

		
	Ceramic	
		

		
	Automobile	
		

		
	Engineering	
		

		
	OEM	
		



## MEET THE CEO'S DESK

I am very pleased to have this opportunity to introduce our company to you. AAVAD Instrument is a company which manufactures & supply measuring instruments. Since incorporation, we have been a part in the history of this industry and enhancement of instrument. We are concentrating on developing & upgrading Aavad's products for customer satisfaction and maintain quality system based on industry standard. We have established our labs for certification and calibration centre for measuring instruments starting from Temperature and pressure measuring instruments.

I am thankful to all my customers for providing us the continuous support and opportunity to serve them to meet up our organization goal and we will do our best to provide higher quality of services. We will endeavour with our best efforts to grow continuously to become industry leader which provides true value and satisfaction to our customer.

MR.  
AJAY GADHVI.

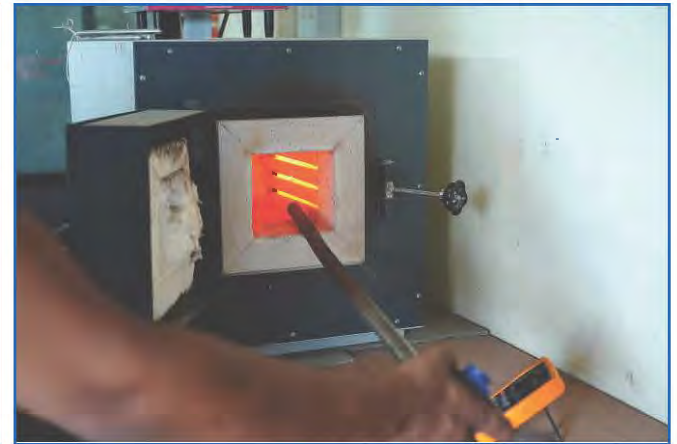




		Temperature Tables for TC Sensors						Output in mV. Referenced to 0 °C.				
TC Type	Temp.°C	0	100	200	300	400	600	800	1000	1200	1400	1600
J	0.0	5.269	10.779	16.327	21.848	33.102	45.494					
K	0.0	4.096	8.138	12.209	16.397	24.905	33.275	41.276	48.838			
N	0.0	2.774	5.913	9.341	12.974	20.613	28.455	36.256	43.846			
T	0.0	4.279	9.288	14.862	20.872							
E	0.0	6.319	13.421	21.036	28.946	45.093	61.017	76.373				
R	0.0	0.647	1.469	2.401	3.408	5.583	7.95	10.506	13.228	16.04	18.849	
S	0.0	0.646	1.441	2.323	3.259	5.239	7.345	9.587	11.951	14.373	16.777	
B	0.0	0.033	0.178	0.431	0.787	1.792	3.154	4.834	6.786	8.956	11.263	

		Temperature Tables for RTD Sensors							According to IEC 751. ITS 90. Output in ohm.			
RTD Type	Temp.°C	-100	-50	0	50	100	150	200	300	400	500	600
	PT-100	60.26	80.31	100	119.4	138.51	157.33	175.86	212.05	247.09	280.98	313.71
	PT-200	120.52	160.62	200	238.8	277.02	24.905	351.72	424.1	494.18	561.96	627.42
	PT-500	301.28	401.53	500	596.99	692.53	786.63	879.28	1060.26	1235.46	1404.89	1568.54
	PT-1000	602.6	803.1	1000	1194	1385.1	1573.3	1758.6	2120.5	2470.9	2809.8	3137.1
	PT-2000	1205.2	1606.2	2000	2388	2770.2	3146.6	3517.2	4241	4941.8	5619.6	6274.2
	CU-53				64.29	75.5	86.37					
	NI-100		74.24	100	129.14	161.73	198.69					





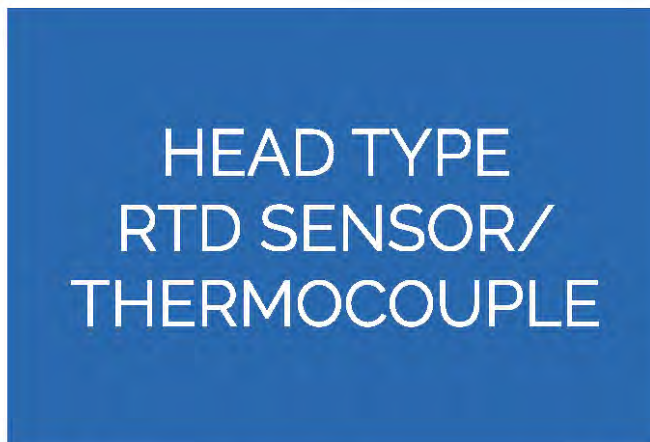




Industrial sensor



MI Sensor



Specially Coated Sensor



Metal Protected Sensor



Weather / Flameproof Sensor



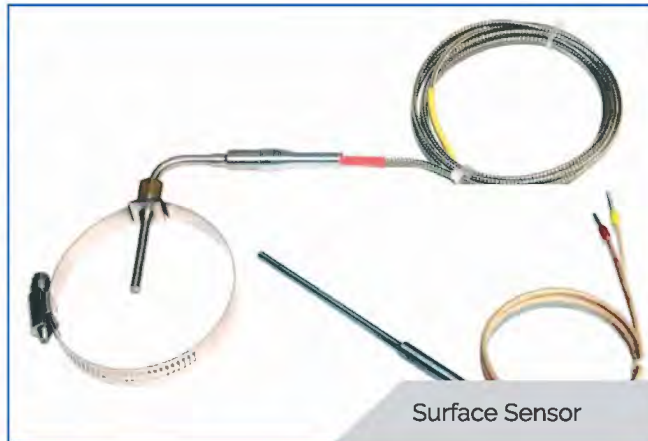
Ceramic Terminal Block



	Technical Description	A	B	C	D	E	F	G	H	I
1		PT-100	PT-200	PT-500	PT-1000	PT-2000	CU-53	NI-100		
2	Sensor Type	J (Ir/Constantan) ( 0 to 600°C )	K (Cr/ Al) ( 0 to 1200°C )	N (Nicrosil / Nisil) ( 0 to 1200°C )	R (Pt-Pt/ Rh13 %) ( 0 to 1600°C )	S (Pt-Pt/ Rh10%) ( 0 to 1600°C )	B (Pt-30% Rh/Pt-6%) ( 0 to 1800°C )	T (Copper / Constantan) ( 0 to 350°C )	E (Ni-Cr / Constantan) ( 0 to 870°C )	Customised
3	Accuracy	Class A	Class B	Customised						
4	Junction	Grounded	Ungrounded	Exposed	Customised					
5	Sheath MOC	SS 304	SS 316	SS 316L	SS 310	Teflon Coated	Tantalum	Inconel 600	Inconel 800	
6		Hastelloy C	Incoloy 800	Mineral Insulated	Hrs 446	Ker-610	Ker-710	Silicon Carbide	Silicon Nitride	Customised
7	Sheath Construction	Straight	MI (Flexible )	Bar Stock	Customised					
8	Configuration	Simplex	Duplex	Triplex	Any Special Multipoint					
9	No. Of Wire In Simplex	2-Wire	3-Wire	4-Wire						
10	Protection Head	Weather Proof (IP-65)	Flame Proof (IP-67)	Miniature	Stainless Steel	Neoprene	Hinge Type	Plastic	Customised	
11	Cable Entry	Single	Double	Customised						
12	Ceramic Terminal Block	Straight	Spring Loaded	Customised						
13	Process Connection	Not Applicable	Adjustable compression Fitting	Fix Fitting	Flange	Triclover	Nipple-Union-Nipple	Nipple-Union	Nipple	Weld Pad
14	Fitting Size	1/2"	1/4"	3/4"	3/8"	1/8"	1"	1.5"	2"	Customised
15	Connection Type	BSP	NPT	Customised						
16	Calibration Certificate	NABL Traceable	NABL Accredited			LENGTH :			OD :	



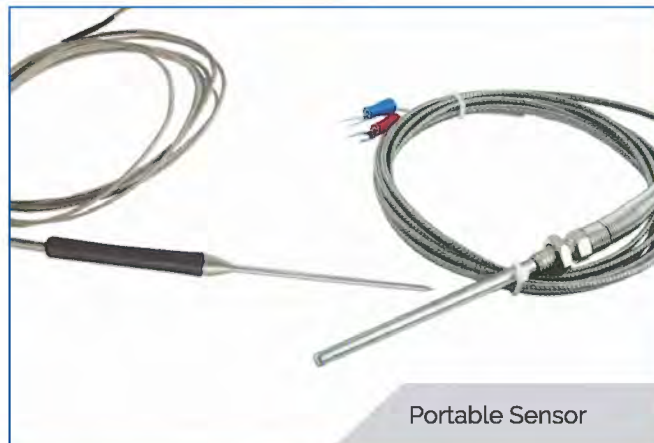
Bayonet Type



Surface Sensor



Teflon Sensor



Portable Sensor

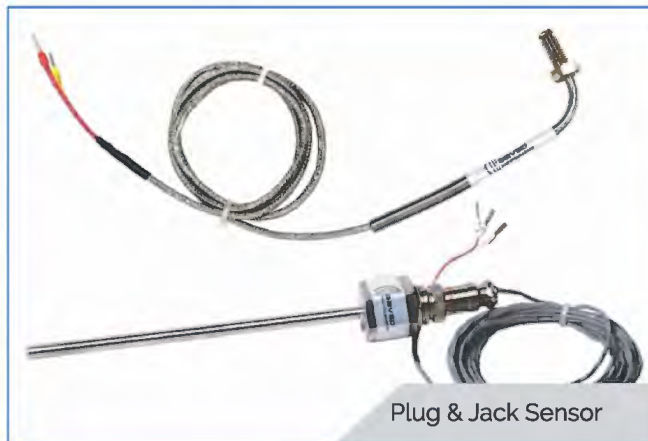
## WIRE TYPE RTD SENSOR/ THERMOCOUPLE



Quick Response Thermocouple (QRT)



Weld Pad Sensor



Plug & Jack Sensor



MI Sensor



	Technical Description	A	B	C	D	E	F	G	H	I
		PT-100	PT-200	PT-500	PT-1000	PT-2000	CU-53	NI-100		
1	Sensor Type	J (Ir/Constantan) ( 0 to 600°C )	K (Cr/ Al) ( 0 to 1200°C )	N (Nicrosil / Nisil) ( 0 to 1200°C )	R (Pt-Pt/ Rh13 %) ( 0 to 1600°C )	S (Pt-Pt/ Rh10%) ( 0 to 1600°C )	B (Pt-30% Rh/Pt-6%) ( 0 to 1800°C )	T (Cu/ Constantan) ( 0 to 350°C )	E (Ni-Cr / Constantan) ( 0 to 870 °C )	Customised
2	Shape	L-Shape	Square	Washer Type	Leaf Type	Flexible Extension	Wire Type	Fixed Bayonet	Customised	
3	Accuracy	Class A	Class B	Customised						
4	Junction	Grounded	Ungrounded	Exposed	Customised					
5	Sheath MOC	SS 304	SS 316	SS 316L	SS 310	Teflon Coated	Tantalum	Inconel 600	Inconel 800	
6		Hastelloys C	Incoloy 800	Mineral Insulated	Hrs 446	Ker-610	Ker-710	Silicon Carbide	Silicon Nitride	Customised
7	Sheath Construction	Straight	MI (Flexible )	Bar stock	Customised					
8	Type Of Wire	Teflon/Teflon	Teflon/Teflon/ Stainless Steel	Fiberglass/ Fiberglass	Fiberglass/ Fiberglass/ Stainless Steel	Polyvinyl Chloride/ Polyvinyl Chloride	Silicon Rubber	Teflon/ Stainless Steel/ Teflon	Customised	
9	Configuration	Simplex	Duplex	Triplex	Customised Multipoint					
10	No. Of Wire In Simplex	2-Wire	3-Wire	4-Wire						
11	Process Connection	Not Applicable	Fix Fitting	Flange	Triclover	Adjustable Compression Fitting	Weld pad	Customised		
12	Fitting Size	1/2"	1/4"	3/4"	3/8"	1/8"	1"	1.5"	2"	Cust.
13	Connection Type	BSP	NPT	Customised						
14	Calibration Certificate	NABL Traceable	NABL Accredited	Customised		LENGTH :		OD :		



Thimble Thermocouple

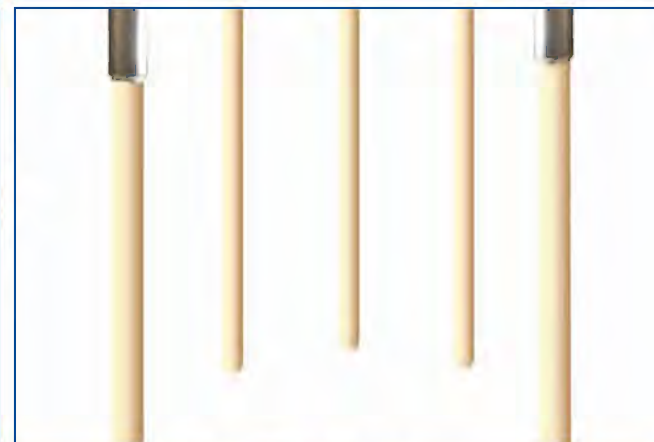


KER - 610 Thermocouple



Platinum Thermocouple

CERAMIC TUBE  
HIGH TEMPERATURE  
THERMOCOUPLE/  
SENSOR



K-Type Thermocouple



KER - 710 Thermocouple



	Technical Description	A	B	C	D	E	F	G
1	Sensor Type	K (Cr/ Al) ( 0 to 1200°C )	N (Nicrosil / Nisil) ( 0 to 1200°C )	R (Pt-Pt/ Rh13 %) ( 0 to 1600°C )	S (Pt-Pt/ Rh10%) ( 0 to 1600°C )	B (Pt-30% Rh/Pt-6%) ( 0 to 1800°C )		
2	Sheath MOC	Ker -610	Ker-710 (c-799)	Silicon Carbide	Silicon Nitride	Customised		
3	No Of Protection	Single	Double	Triple	Customised			
4	Configuration	Simplex	Duplex	Triplex	Customised Multipoint			
5	Protection Head	Weatherproof ( IP-65 )	Flameproof ( IP-67 )	Miniature	SS	Hinge Type	Direct Connector	Customised
6	Ceramic Terminal Block	Straight	Spring Loaded	Customised				
7	Process Connection	Adjustable Compression Fitting	Fix Fitting	Fix Flange	Adjustable Flange	Customised		
8	Fitting Size	1/2"	1/4"	3/4"	3/8"	1/8"	HOLDING TUBE OD :	
		1"	1.5"	2"	Customised		HOLDING TUBE LENGTH :	
9	Connection Type	BSP	NPT	Customised			CERAMIC TUBE OD :	
10	Sheath OD(MM)	8x5mm	12 x 8mm	15 x 10mm	20 x 14mm	24 x 18mm	CERAMIC TUBE LENGTH :	
11	Calibration Certificate	NABL Traceable	NABL Accredited	Customised			TOTAL LENGTH :	



SS Thermowell



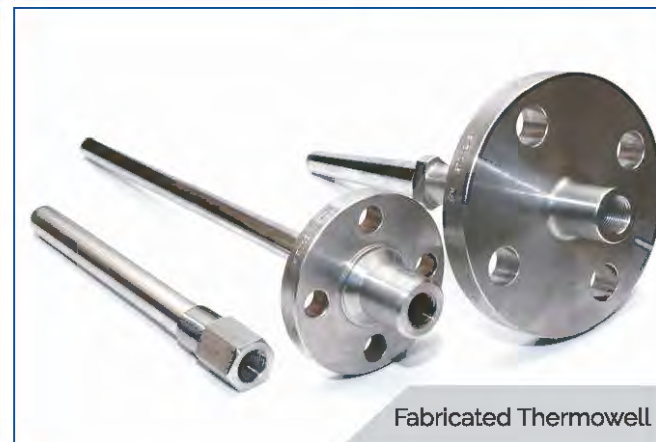
Welded Thermowell



PTFE Coated



Barstock Thermowell



Fabricated Thermowell



Tapper Thermowell



Brass Thermowell



Customised Thermowell



	Technical Description	A	B	C	D	E	F	G	H	I
1	Type	Bar Stock	Welded	Fabricated	Drilled	Tapper	Teflon Coated	Customised		
2	Design	Flange	Screw							
3	Thermowell Dia	OD (B)	OD (S)	ID	Length	Customised				
4	Material of Construction	SS 304	SS 316	SS 316L	SS 310	Hastelloy C	Inconel 600	Teflon Coated	KER-610	KER-710
5		Silicon Carbide	Silicon Nitride	Teflon Coated	Casting	Brass	Customised			
6	Temperature Range	400°C	700°C	900°C	1100°C	1200°C	1400°C	1600°C	Customised	
7	Pressure	5 Kg/cm <sup>2</sup>	10 Kg/cm <sup>2</sup>	25 Kg/cm <sup>2</sup>	40 Kg/cm <sup>2</sup>	100 Kg/cm <sup>2</sup>				
8	Process Connection	Male	Female	Male + Female	Customised					
9	Process Connection ( outer thread )	1/2"	1/4"	3/4"	3/8"	1/8"	1"	1.5"	2"	Customised
10	Instrument Connection ( inner thread )	1/2"	1/4"	3/4"	3/8"	1/8"	1"	1.5"	2"	Customised
11	Connection size	BSP	NPT	Flange	Customised					
12	Flange Rating	RF 150#	RF 300#	RF 400#	RF 600#	Customised				
13	Certificate	Hydro Test	MOC							



Mineral Insulated Cable



Heater



Fittings



Repairing of Thermocouple

# TEMPERATURE INSTRUMENT & ACCESSORIES



Thermostat



SS Pipe



Head & Terminal



Pyrometer





Platinum Wire & Crucible



Calibrator

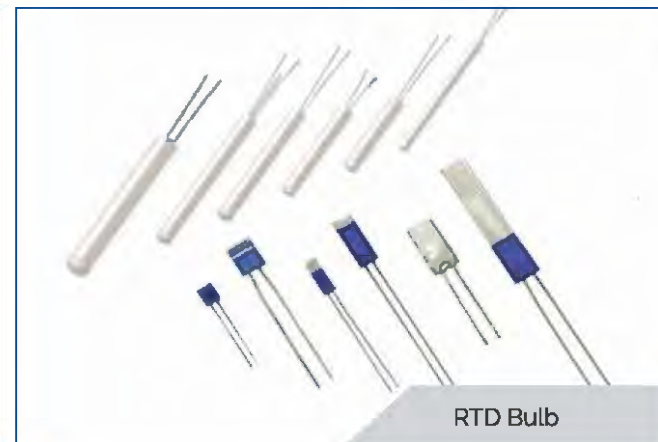


Signal Isolator



Kanthal Wire (Thermocouple)

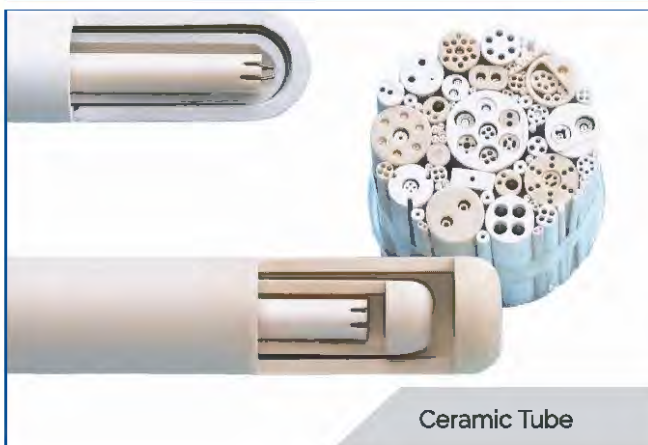
# TEMPERATURE INSTRUMENT & ACCESSORIES



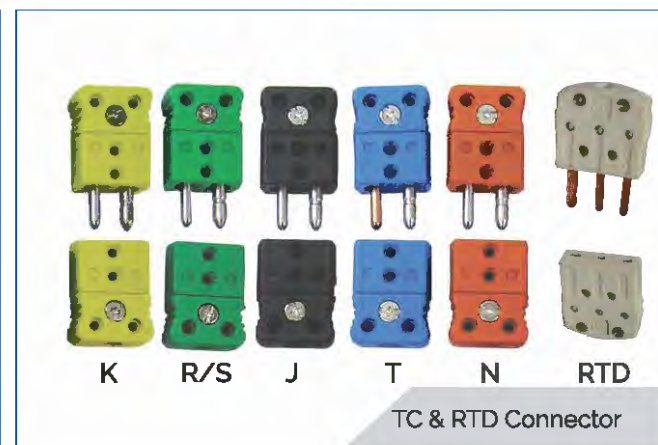
RTD Bulb



Temperature Transmitter



Ceramic Tube



TC & RTD Connector





J Type FG / FG / SS



RTD TF / TF 3 Core



J Type PVC / PVC



K Type TF/ TF

## RTD AND THERMOCOUPLE CABLE



K Type PVC / PVC



R/S Type PVC / PVC



K Type FG / FG / SS



RTD TF / TF 6 Core



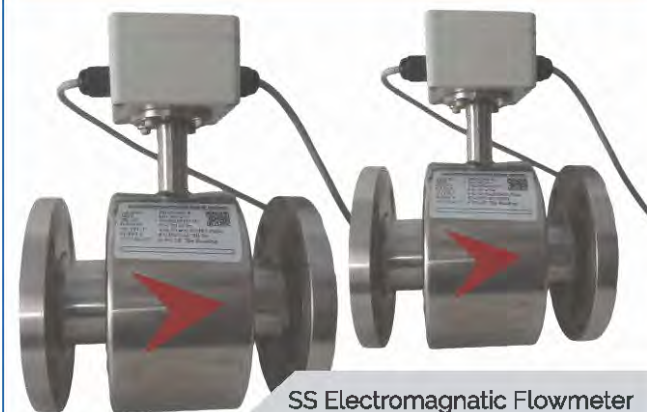
	Technical Description	A	B	C	D	E	F	G	H
1	Calibration Type	RTD	J	K	R	S	B	T	N
2	Grade	Extension	Compensating						
3	RTD Conductor Type	NI Plated Cu (NPC)	Ag Plated Cu (SPC)	Bare Cu(BC)					
4	Insulation	Fiber glass/ Fiber glass	PTFE/ Fiber glass/ss	PTFE/PTFE	Fiber glass/ Fiber glass/SS	PTFE/ Kapton	FEP/Kapton	FEP/ Silicon Rubber	PTFE/PTFE/SS
5		PVC/PVC	PVC/PVC/ Asbestos	PVC/Shielded /PVC	PVC/Shielded /PVC/ Armoured/ PVC	PTFE/ Silicon Rubber	PTFE/PTFE/SS/ Silicon Rubber	Silicon Rubber/ Silicon Rubber	Neoprene Rubber /Neoprene Rubber
6		PVC/PVC/ Armoured/Neo prene rubber	Fiber glass/fiber glass/Asbestos	Fiber glass/Asbesto s/Asbestos	PVC twisted	PTFE twisted	FEP twisted	FEP/PEP	FEP/FEP
7	Conductor's size (SWG)	1/16,1/18,1/20,1/21,1/22,1/24,1/30,1/36,	3/20,3/22,3/24,3/26,3/30,	7/28,7/30,7/36,	14/36,40/36,48/36	0.25 sq.mm	1.00 sq.mm	1.50 sq.mm	Customised
8	No.of Core	2	3	4	6	8	Customised		
9	Color Code	IEC	ANSI	BS	DIN	JIS	NFC		
10	Cable Construction	Flat	Round	Oval	Twisted				



Integral Display Flowmeter



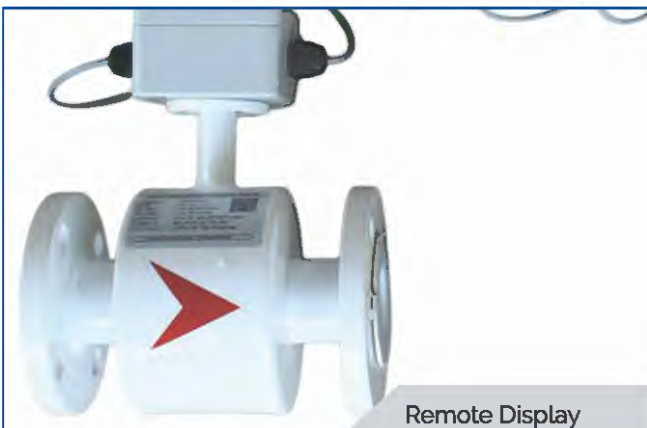
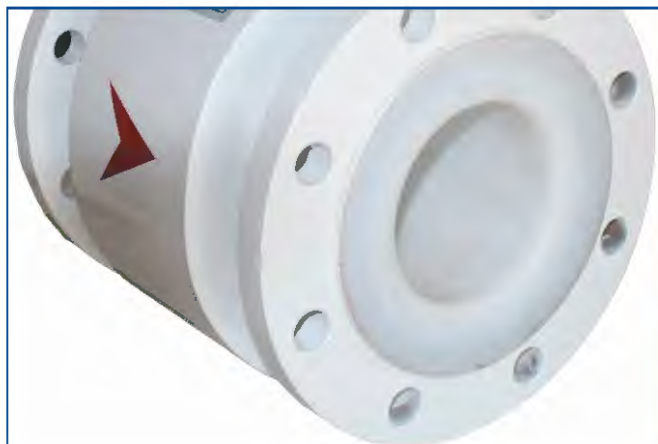
Electromagnetic Flowmeter



SS Electromagnetic Flowmeter



# ELECTROMAGNETIC FLOWMETER



Remote Display



	Technical Description	A	B	C	D	E	F	G
1	Media	Water	RO Water	Acid	Caustic	ETP	WTP Water	Customised
2	Model	AMAG-I	AMAG-R					
3	Conductivity	>10 $\mu$ S/cm	Any other Conductive Liquid		-	-	-	-
4	Line Size (NB)	15mm	19mm	25mm	40mm	50mm	65mm	80mm
5		100mm	125mm	150mm	200mm	250mm	300mm	500mm
6	Display	LED	LCD	Customised				
7	Version	Integral	Remote	Customised				
8	Liner	Soft & Hard Rubber	PTFE	PFA	Customised			
9	Flange MOC	CS	MS	SS 304	SS 316	SS 316 L	Customised	
10	Electrode MOC	SS 316	Hastelloys C	SS 316 L	Customised			
11	Coil Housing	MS	SS 304	SS 316	Customised			
12	Mounting	Horizontal	Vertical	Customised				
13	Velocity	0.3 m/s to 10 m/s						
14	Transmitter Encloser	Aluminum die cast (IP-65)	Flameproof (IP-67)	Customised				
15	Power Supply	230V AC	24V DC	Customised				
16	Output	4-20mA	Relay	Pulse	Rs 485	Rs 232	Customised	
17	Flange Rating	ASA 150#	Customised					



Gas / Steam Flow Meter



Ultrasonic Clamp on Flow Meter



Inline Ultrasonic Flow Meter



Oval Gear



Hot Water Meter



Oil Flow Meter



Cold Water Meter



Turbine Flow Meter



Technical Description		A	B	C	D	E	F	G
1	Application	Liquid	Hot Water	Cold Water	Oil	Gas	Steam	Air
2	Line Size (NB)	25mm	50mm	100mm	Customised			
3	Type	Single-jet	Multi-jet	Paddle Wheel	Vortex	Orifice	Ultrasonic Clamp-on Meter	Inline ultrasonic Flowmeter
4		Turbine	Oval Gear					
5	Display	Mechanical	Digital	Customised				
6	End Connection	Threaded	Flanged	Customised				
7	Output	4-20mA	Relay	Pulse	Rs 485	Rs 232	HART	Customised
8	Flange Rating	RF 150 ASA #	Customised					
Minimum Flow		Maximum Flow		Specific Gravity				
Tempreture		Pressure						
IBR		Accuracy						



Industrial / Back Panel Mounted



Sealed Diaphragm / master



Schaffer



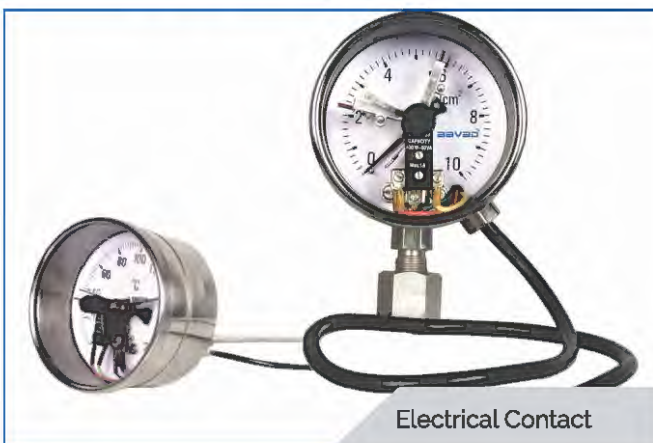
Surface Mounted



# PRESSURE GAUGE



Commercial



Electrical Contact



Digital



Magnehelic



	Technical Description	A	B	C	D	E	F	G	H	I
1	Pressure Range	Pressure Gauge	Compound Gauge	Vacuum Gauge						
2	Type	Commercial Pressure Gauge	Industrial Pressure Gauge	Digital Pressure Gauge	Glycerine Filled Pressure Gauge	Electrical Contact Type Pressure Gauge	Vacuum Gauge	Sanitary Pressure gauge		
3		Magnehelic Pressure Gauge	Capsule Pressure Gauge	schaffer Pressure Gauge	Sealed Diaphragm Pressure Gauge	Master Pressure Gauge	Differential Pressure Gauge	Customised		
4	Mounting	Direct Bottom	Bottom Surface	Back Panel	Back Bracket	Direct Back	Customised			
5	Dial Size	40mm	50mm	63mm	100mm	150mm	250mm	300mm		
6	Process Connection Type	BSP	NPT	FLANGE	ANY SPECIAL					
7	Process Connection Size	1/8"	1/4"	3/8"	1/2"	1"	2"	Customised		
8	MOC	MS	SS 304	SS 316	Customised					
9	Protection	IP-65	IP-55	Customised						
10	Calibration Certificate Provided	NABL Traceable	NABL Accredited	Customised						
							Measuring Range :			
							Unit :			
							Glycerine Filled:			



Gas Filled



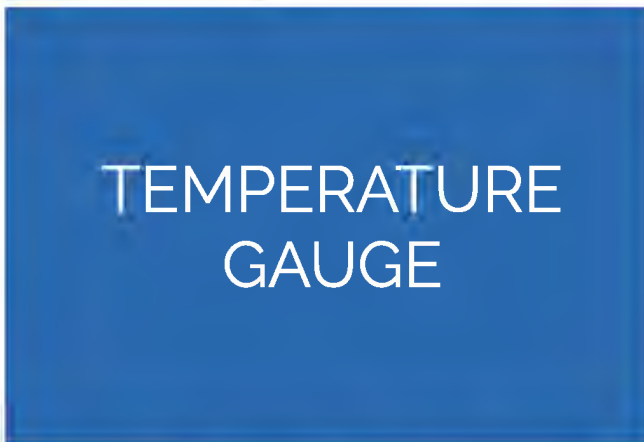
Bi - Metal Back Mounted



Liquid Filled



Every Angle Temp. Gauge



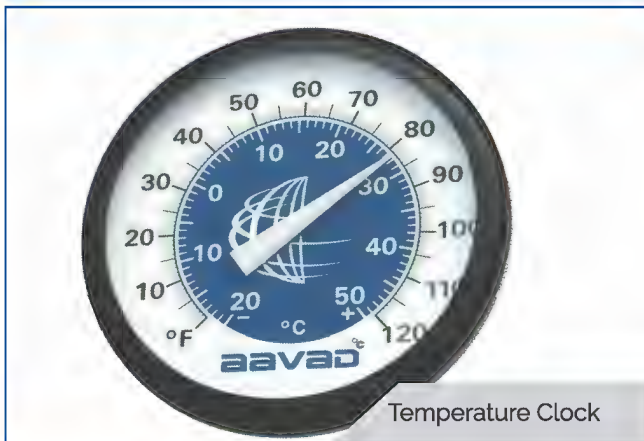
# TEMPERATURE GAUGE



Mercury Filled



Bi - Metal Temp. Gauge



Temperature Clock



Digital



	Technical Description	A	B	C	D	E	F	G	H	I
1	Temperature Range	-40 to 50°C	0 to 50°C	0 to 100°C	0 to 200°C	0 to 300°C	0 to 400°C	0 to 500°C	0 to 600°C	Customised
2	Type	Bi-metal	Mercury Filled	Gas Filled	Electric Contact	Digital Temperature Gauge	Customised			
3	Mounting	Direct Bottom	Back Direct	Every Angle	Customised					
4	Dial Size	63mm	100mm	150mm	250mm	Customised				
5	Stem MOC	SS 304	SS 316	SS 316 L	With Thermowell	Customised				
6	Stem Length	150mm	300mm	Customised						
7	Stem OD	6mm	8mm	10mm	Customised					
8	Process connection Type	BSP	NPT	Flange	Customised					
9	Process Connection Size	1/8"	1/4"	3/8"	1/2"	1"	2"	Customised		
10	MOC	SS 304	SS 316	Customised						
11	Protection	IP-65	IP-55							
12	Calibration Certificate Provided	NABL Traceable	NABL Accredited	Customised						



Process Controller



PID Controller



Loop Power Indicator



Portable Indicator



Data Logger / Scanner



Jumbo Display Indicator



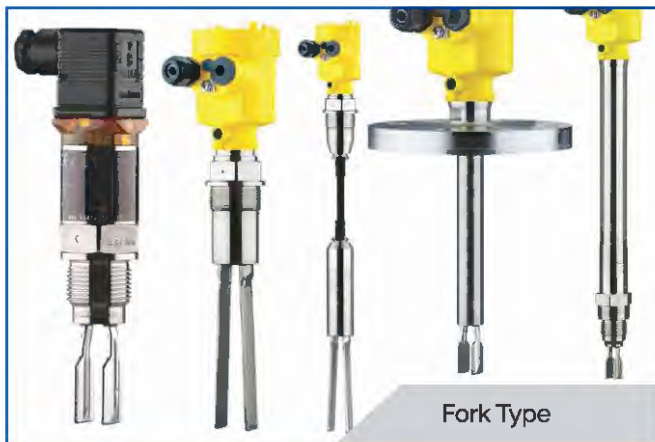
Temperature Controller



Flameproof Controller / Indicator



	Technical Description	A	B	C	D	E	F	G	H	I
2	Type	Indicator	Controller	PID	Scanner	Datalogger	Jumbo display indicator	Loop power indicator		
3	Dimension	96X96	72x72	48X48	48X96	96X48	96X192	Customised		
4	No of Channel	1	2	4	8	16				
5	Display	Single	Double	Customised						
6	Protection	Weatherproof	Flameproof	Customised						
7	Supply Voltage	230V AC / 50 Hz	24V DC	Battery Operated	Customised					
11	Input	J	K	R	S	B	N	Universal		
12		RTD	RTD.1	4-20mA	0-20mA	0-5V DC	Customised			
17	Water/Dust Proof	IP-54	IP-65	IP-67	Customised					
13	Output 1	Alarm	Relay	SSR	4-20mA Control Output	0-10V DC	4-20mA Retransmission	24 V DC Transmitter Supply	RS 232	RS 485
13	Output 2	Alarm	Relay	SSR	4-20mA Control Output	0-10V DC	4-20mA Retransmission	24 V DC Transmitter Supply	RS 232	RS 485
13	Output 3	Alarm	Relay	SSR	4-20mA Control Output	0-10V DC	4-20mA Retransmission	24 V DC Transmitter Supply	RS 232	RS 485
13	Output 4	Alarm	Relay	SSR	4-20mA Control Output	0-10V DC	4-20mA Retransmission	24 V DC Transmitter Supply	RS 232	RS 485



Fork Type



Antenna



Capacitive Level



Conductive Level

# LEVEL SWITCH/ TRANSMITTER



Ultra Sonic Level Transmitter



Guided Wave Radar



Horn Type Level Transmitter



Radar Level Switch



	Technical Description	A	B	C	D	E	F	G	H	I
1	Measured Level Method	Contact Type Level Switch	Contact Type Level Transmitter	Non Contact Type Level Switch	Non Contact Type Level Transmitter					
2	Sensor Type	Capacitance	Conductivity	Vibrating Fork	Coaxial	Ultrasonic	Radar	Guided Wave Radar	Customised	
3	Measuring Range ( Distance )	6 MTR	12 MTR	30 MTR	75 MTR	Customised				
4	Medium	Liquid	Bulk Solids	Gases	Customised					
5	Tank	Hopper	Storage	Vessel	Reactor	Silo	Customised			
6	Probe	Rod	Rope							
7	MOC	SS 304	SS 316	SS 316 L	PTFE	CERAMIC	PP	PVDF		
8	Mounting	From Above	From Bottom	Side	Customised					
9	Measuring Range (Temperature)	0 to 80°C	0 to 100°C	0 to 130°C	0 to 150°C	0 to 200°C	0 to 250°C	0 to 400°C	Customised	
10	Process Pressure (Bar)	(-1) to 1 bar	(-1) to 2 bar	(-1) to 16 bar	0 to 1 bar	0 to 2 bar	0 to 16 bar	Customised		
12	Output	Relay	4-20mA	MODBUS	HART	Customised				
13	Power Supply	10-30V DC	230V AC	Customised						
14	Display	Non	Separate	LED	LCD	Customised				
15	Calibration Certificate	NABL Traceable	NABL Accredited	Customised						

## METALTUBE / GLASSTUBE ROTAMETERS



**Mainly used for measuring rated flow of liquid and gases.**

- Available in C.S., SS-304, SS-316, Polypropylene, P.T.F.E. lined.
- Flanged, Screwed, Hose Nipple & TC Joint connections.
- Available from 15 NB to 100 NB pipe size and ranges between 30 to 20,000 LPH of water at ambient temperature.
- Linear Scale having Accuracy of  $\pm 2\%$  FSD.
- High & low flow switches

## ACRYLICBODY ROTAMETERS



**Precisiously machined from Imported Transparent Solid Acrylic Block, Tapering tube is done by special tools.**

- Suitable for water, saline water, air, N<sub>2</sub>, H<sub>2</sub> and natural gases.
- Available from 15 NB to 100 NB pipe size and ranges between 30 to 40,000 LPH of water at ambient temperature.
- Accuracy  $\pm 2\%$  FSD.
- High & low flow switches on request.
- Flanged, Screwed, Hose Nipple & TC Joint connections.

## BY-PASS ROTAMETERS



**Suitable for pipeline of 50 NB and above**

- The flowrate through the rotameter is proportional to the pressure drop across the orifice plate.
- Available in SS-316 / SS-304 / P.P. material.
- Available in Corner tapping (careering), Flange Tapping or D and D/2 Tapping.
- Accuracy  $\pm 2\%$  FSD.
- High & low flow switches on request.

## TUBULAR LEVEL INDICATOR



**Simple and reliable device for direct reading in atmospheric or below 5kg/cm<sup>2</sup> Pressurised tank.**

- Bolted gland with teflon packing ensures positive leak tightness for full vacuum as well as 10 Kg/Cm<sup>2</sup> pressure.
- Available in Aluminum, Acrylic, SS Linearly calibrated scale.
- MOC : MS, SS-304, SS-316, P.P., MS with P.P. / P.V.D.F./ PTFE / Lead lined.

## TOP / SIDEMOUNTED MAGNETIC LEVEL INDICATOR



**A magnetised float moves with level in external chamber which is coupled with the tank.**

- Reliable for aggressive, combustible, toxic, high pressure and high temperature (up to 150°C) liquid storage tanks.
- Suitable for Ethylene, Benzene, Toluene, Alcohols, Acids, poisonous / toxic liquid like DMA, TEA etc.

## REFLEX/TRANSPARENT LEVEL GAUGE



**Designed for high pressure & temperature liquid storage tanks in Petrochem., Fertilizers, Pharmaceuticals & Chem. industries.**

- Glass : Borosilicate Toughened of Indigenous – Temperature Range upto 125°C.
- Other on request Designed for high pressure & temperature liquid storage tanks in petrochemicals, fertilizers, Pharmaceuticals & Chemical industries.



## FLOAT & BOARDTYPE LEVELINDICATOR



**Suitable for tall and overhead tanks of non pressurised and non hazardous Chemical storage Tanks.**

- Available in SS-316 / SS-304 / P.P. / P.T.F.E. lined construction.
- Generally screwed with flow control valve at inlet but flanged or hose connection available.
- 10 LPH to 160 LPH of water at ambient temperature & 20 to 5000 NLPH of air at NTP condition.
- Accuracy  $\pm 2\%$  FSD.
- Panel mounted with high & low flow switches available.

## DISPLACER TYPE LEVEL SWITCH



- Mounting : Min. 80 NB to 300 NB.
- Ideal for Deep tank or Sump for low alarm.
- Pressure : Vacuum to 15 Kg/Cm<sup>2</sup>.
- Two displacers available for pump control.
- Suitable for high temperature.
- External cage on request.
- For High Temperature (Max 350 °C on request)

## CONDUCTIVITY TYPE LEVELSWITCHES



**Ideal for use in conductive liquids, i.e. Water/Waste Water & Non Foaming Liquids**

- Low cost with easy installation.
- No calibration required.
- Available up to 30 meters & temperature up to 200 °C maximum.



## CABLE FLOAT SWITCH

**Ideal for use in effluent water treatment plant**

- Low cost with easy installation.
- No calibration required.
- Available up to 3/5 mtrs & temp.
- up to 60 °C maximum.



## U-TUBE MANOMETER (GLASS/ACRYLIC)



**Used for precision measurement of Pressure and Differential Pressure.**

- Zero adjustment scale.
- Wall / Stand mounted



## MANOMETER (GLASS/ACRYLIC)



**Used for precision measurement of Pressure, Vacuum & Differential Pressure for flow and liquid level measurement.**

- All wetted parts made from SS
- Zero adjustment scale.
- Wall / Stand mounted

## BRAIDED CABLES

**This product is used for AC rated voltage electric appliances, instruments, meters, electro-equipment and automatic installations.**

Conductor - Copper wire

Insulation - PVC/FRLS/PE/XLPE.

Sheathing - PVC/FRLS

Color - BLACK /BLUE

Voltage - Voltage is 1100V

Temperature Range - 70 /90



## CO-AXIAL



Coaxial cable, or coax, has an inner conductor surrounded by a flexible, tubular insulating layer, surrounded by a tubular conducting shield. The term coaxial comes from the inner conductor and the outer shield sharing a geometric axis. Coaxial cable was invented by English engineer and mathematician Oliver, who patented the design in 1880.

## CONTROL CABLES (ARMOURED)

**Used in fixed wiring, underground wiring, industrial control wiring**



Conductor - Solid /Fine strands of electrolytic grade annealed copper conductor tinned/bare

Insulation - Insulated with special grade PVC/HR PVC/FR/XLPE

Armoring - Galvanized steel wire or strips or double helical steel tape armoring for single core cable.

Sheathing - Special grade PVC/general purpose PVC/FRLS PVC outer sheath

Size - 1.5 sqmm to 2.5 sqmm up to 61 Cores

## CONTROL CABLES (UNARMOURED)

**Solid /Fine strands of electrolytic grade annealed copper conductor tinned/bare**

Insulation - Insulated with special grade PVC/FR PVC/XLPE.

Sheathing - PVC Taped, PVC extruded Inner Sheath

Size - Single Core: 1.5mm<sup>2</sup> to 2.5mm<sup>2</sup>.

Voltage - Working voltage grade 1100 Volts Test voltage 3000 Volts

Temp. Range - Normal temp. -20°C to 70°C. High temp.-20°C to 90°C



## SCREEN CABLES



Conductor - 0.25 mm 2.5 mm.

Insulation - PVC / polyethylene / polypropylene extruded cores identified by colors / number printing.

Armoring - Galvanized steel wire / strips are used.

Sheathing - An extruded layer of PVC is applied in different colors as required.

Voltage - 660/1100 volt

Temperature Range - 70/90

Screen - A Serving of Steel Wire/ Tin Copper Screening with Minimum 95 % Of Coverage.

## UNSCREEN CABLES



Conductor - Solid / bunched / stranded copper bare / tinned from 0.25 mm<sup>2</sup> to 1.5 mm<sup>2</sup>.

Insulation - PVC / polyethylene / polypropylene extruded cores identified by colors / number printing

Sheathing - An extruded layer of PVC is applied in different colors as required.

Voltage - 1000 Volts

Temperature Range - Maximum operating temperature not to exceed 90 °C in wet or dry locations



## POWER CABLES (ARMOURED)



Conductor - copper /aluminium  
 Insulation - The conductors are insulated with a layer of extruded PVC/XLPE compound.  
 Armoring - Galvanized Round Steel Wire, Galvanized Flat Steel Strip, Aluminium Wire/Strip Armoring  
 Sheathing - PVC Taped, PVC extruded Outer Sheath  
 Color - Black  
 Size - 2.5sqmm to 300sqmm up to 4 Cores, 400 sqmm to 630sqmm up to 3.5 Cores  
 Voltage - Up to 1100 volts.  
 Temperature Range - 90 continuous normal operation, 130 for emergency overload condition 250 for short circuit condition.  
 Specification - IS:1554(Part-1) & IS:7098(Part-1)

## POWER CABLES (UNARMOURED)



Conductor - copper /aluminium  
 Insulation - The conductors are insulated with a layer of extruded PVC/XLPE compound.  
 Sheathing - PVC extruded Inner Sheath and Outer Sheet  
 Size - 1.0 to 630 sqmm  
 Voltage - Up to 1100 volts  
 Temperature Range - 90 continuous normal operation, 130 for emergency overload condition 250 for short circuit condition  
 Specification - IS:1554(Part-1) & IS:7098(Part-1)  
 Packing - In 500/1000 Mtr. length on wooden drums

## INSTRUMENT CABLE (ARMOURED)



Applications	- This type of wire used for instrumentation/process control in chemical and petrochemical industries
Conductor	- Solid/Stranded/Flexible Annealed Bare/ Tinned copper.
Insulation	- PVC/FRLS/PE/XLPE
Armoring	- A serving of round galvanized steel wires as per BS:1442, is applied with 90% minimum coverage
Sheathing	- PVC/FRLS
Color	- Black / blue
Size	- 0.50 sqmm (1/0.80 mm) 1.00 sqmm (7/0.45 mm) 1.50 sqmm (7/0.55 mm) 2.50 Sq.mm ( 7/0.65 mm)
Voltage	- 600/1100 volt
Temperature Range	- 70 /90



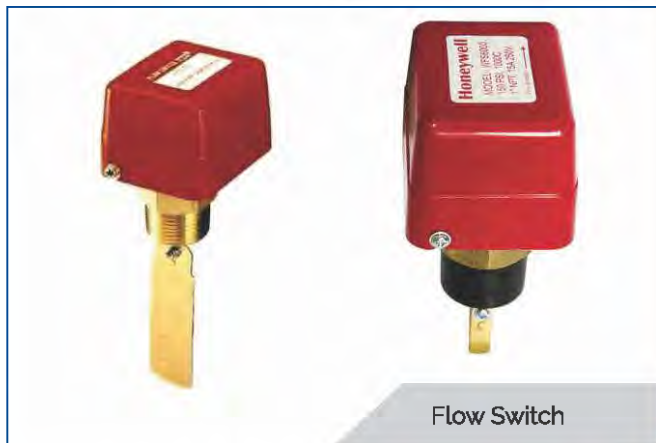
Flameproof Housing



Photoelectric Sensor



Pressure Transmitter



Flow Switch



Pressure Accessories



Analytical Instrument

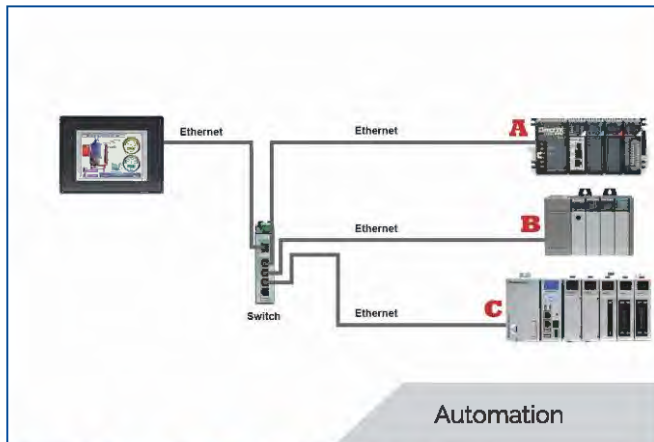


I to P Converter



Pressure Switch





## YOUR HELPING HANDS

### Quotation

aavad@aavadinstrument.com  
+91 97277 (AAVAD) 22823

### Demonstration

hrg@aavadinstrument.com  
+91 90996 (AAVAD) 22823

### Installation

ipp@aavadinstrument.com  
+91 86909 (AAVAD) 22823

### Calibration

purchase@aavadinstrument.com  
+91 78740 (AAVAD) 22823

### Inquiry

purchase@aavadinstrument.com  
+91 78740 (AAVAD) 22823

### Internal office support

aavad@aavadinstrument.com  
+91 97277 (AAVAD) 22823

### Technical Support

ipp@aavadinstrument.com  
+91 86909 (AAVAD) 22823

### Client Visit

nmr@aavadinstrument.com  
+91 95109 (AAVAD) 22823

### Account & Finance

sales@aavadinstrument.com  
+91 78740 (AAVAD) 22823

### Payment

sales@aavadinstrument.com  
+91 78740 (AAVAD) 22823

### Disptach

purchase@aavadinstrument.com  
+91 78740 (AAVAD) 22823

### Production

support@aavadinstrument.com  
+91 99789 (AAVAD) 22823



### Logistic

purchase@aavadinstrument.com  
+91 78740 (AAVAD) 22823

### Purchase

aavad@aavadinstrument.com  
+91 97277 (AAVAD) 22823

### Direct Sales

app@aavadinstrument.com  
+91 74900 (AAVAD) 22823

### South Guj. Officer

mnp@aavadinstrument.com  
+91 95120 (AAVAD) 22823

### Product Specialist

ipp@aavadinstrument.com  
+91 86909 (AAVAD) 22823

### Career

pmi@aavadinstrument.com  
+91 7940095342

### B2B

info@aavadinstrument.com  
+91 99790 (AAVAD) 22823

### Documentation

sales@aavadinstrument.com  
+91 78740 (AAVAD) 22823

### Vendor Registration

aavad@aavadinstrument.com  
+91 97277 (AAVAD) 22823

### Legal

sales@aavadinstrument.com  
+91 78740 (AAVAD) 22823

### Q.C

purchase@aavadinstrument.com  
+91 78740 (AAVAD) 22823

### Feedback

hrg@aavadinstrument.com  
+91 90996 (AAVAD) 22823

216-217, Sangath Mall - 1, Opp. Engineering College, Chandkheda, Motera, Ahmedabad - 380005, Gujarat, India.

E : aavad@aavadinstrument.com W : www.aavadinstrument.com Ph : +91-972-772-2823, 079-40095342.

GSTIN : 24AHZPG7088C1ZY | PAN No. : AHZPG7088C | MSME No. : GJ01A0024728

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