

APPLICATIONS

Sapcon 'ADMIRE' is ideal for use in constricted places due to its compact size and short insertion length. It can be used for detecting level in vessels containing solids that are granular, powdery; liquids and slurries such as flour, spices, fruit pulp, jam, ketchup. It can be used in dusty plant environment.

SALIENT FEATURES

- ◆ ADMiRE is a microprocessor based Admittance type level limit switch
- ◆ Equipped with a fast RISC processor, it combines 'ease of use' within a convenient size.
- ◆ Temperature & Drift compensated for entire operational range.
- ◆ Its key features include dynamic optimization along with ease of calibration & setting.
- ◆ Power supply within DC automation is available from 10 to 55 VDC, addressing the need for 12 V, 24V and 48V industrial supply options.
- ◆ Flameproof with 90 to 265 VAC and potential free output is also available.
- ◆ Power consumption @ 24 volt DC is less than 400 milliwatt when signal PNP is conducting.
- ◆ PNP output transistor is short circuit protected (non-latching) for 100mA output.
- ◆ Calibration with material, without material, as well as both is allowed.
- ◆ With optimization activated, operation will be 'fit and forget' type for many materials.

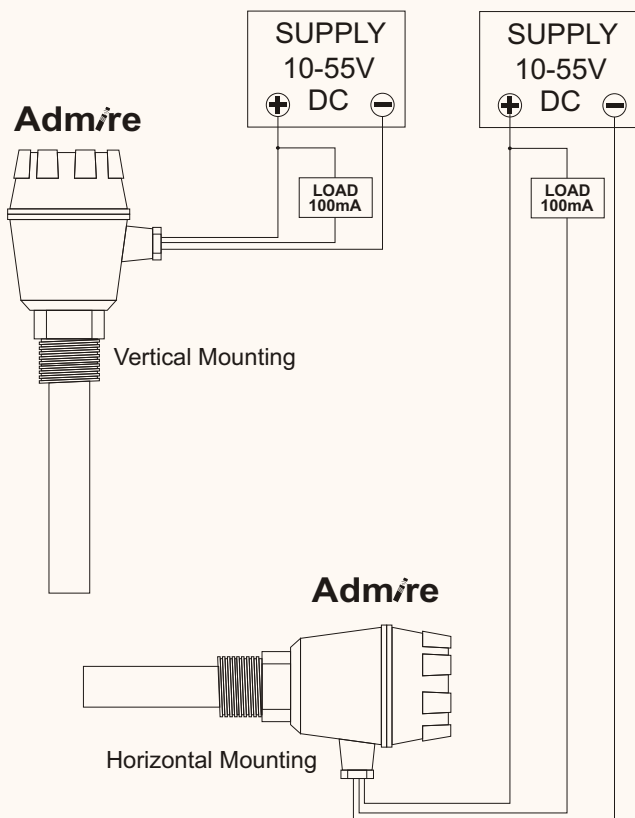
PRINCIPLE OF OPERATION

ADMIRE has specially developed drift canceling hardware with in assists the software inside it to provide correct switching output during its operation. A capacitance being formed by integral sense and reference terminals included in the same Teflon insulated rod. This capacitance depends on the type and quantity of material. ADMIRE measures and analyze this capacitance and provides switching output. Using an active shield for build-up compensation, the principle of admittance is effectively employed. Along with this software within the ADMIRE keeps the track of material so that while working in optimization mode, any problem associated with malfunction due to build-up is completely solved. ADMIRE is thus answer to most switching needs in smaller size.

TECHNICAL DATA

Housing	:	PVC or Plated MS or SS, 1" threaded tube for clean area. Additional aluminum wether-proof cover available for other applications. For aluminum wether-proof cover only.
Cable Entry	:	1 x 1/2" / 3/4" BSP/NPT, Brass Double Compression Gland
Supply Voltage	:	11 to 55 VDC
Output	:	PNP N/O suitable for 300mA load.
Mounting	:	Screwed - 1" BSP Flanged - As per order)
Sensing Part	:	Material MS (Plated) SS Fully Teflon insulated sensing face, PVC or SS
Response Time	:	316 / Plated MS tube Less than 1 second
Sensing Distance/Range	:	0.4" for high conductive material, Physical contact with front face for low dielectric materials
Calibration	:	With Material/Without Material or Both Automatic Calibration adjustment when in Optimization Mode
Material Coat Immunity	:	For non conductive material coating only. Bicolor LED, Displaying normal and alarm material conditions
Indication	:	High (maximum) or Low (minimum) Field
Failsafe	:	Selectable Alarm can be set for material present as well as no material absent
Current Consumption	:	20mA maximum.
Power Consumption	:	0.22 Watt @ 10 Volts to 1.1 Watt @ 55 Volts
Temperature Range	:	maximum. 0 C to 70 C
Sensing Signal Frequency	:	125KHz to 100KHz (Inverse Frequency Operation)
Measurement Frequency	:	2 measurements every second
Mechanical Dimensions	:	Please refer enclosed drawing.

CONNECTION DIAGRAM



ORDER CODE

SLA COMPACT (ADMIRE Series)

HOUSING

- W CAST ALUMINIUM WEATHER PROOF
- F CAST ALUMINIUM WEATHER & FLAMEPROOF

ELECTRONICS

- 1 ONE C/O POTENTIAL FREE CONTACT
- 2 TWO C/O POTENTIAL FREE CONTACTS
- 3 PNP N/C (FAIL SAFE) OUTPUT

POWER SUPPLY

- D 10-55VDC
- U 90-260 VAC

SERVICE TEMPERATURE

- S - STANDARD UP TO 80°C
- H - HIGH TEMPERATURE (PROBE WITH COOLING STANDOFF)

PROBE TYPE

- ST - STANDARD
- ES - EXTRA STRONG
- SS - SUPER STRONG
- HD - HEAVY DUTY

SENSE/EXTENSION ELEMENT TYPE

- RP - PART INSULATED ROD PROBE
- RF - FULL INSULATED ROD PROBE
- FP - PART INSULATED FLEXIBLE ROPE PROBE

* PROBE MOUNTING ARRANGEMENT

- T - THREADED
- F - FLANGED
- O - OTHER

PROBE INSULATION MATERIAL

- P - PTFE
- C - CERAMIC
- O - OTHER

WETTED PARTS & MOUNTING MATERIAL

- MS - MS (PLATED)
- S4 - SS 304
- S6 - SS 316 SL - SS 316L
- OT - OTHER TYPE

ADMIRE W I D S ST RP T P MS Example

Probe Length required -

*Specify Mounting Size.....& type (NPT, ANSI, DIN, JIS, SMS or Other)

SAPCON INSTRUMENTS PVT. LTD.

131, Palshikar Colony, Indore (MP) - 452 004, INDIA

Voice: +91-731- 4082751, 2475751/52/53, 4085751

Facsimile: +91-731- 2475475

E-mail: sales@sapcon.in , sales@sapconinstruments.com

Website: www.sapconinstruments.com