



SENSATA SENSORS AND SWITCHES FOR AIR CONDITIONING AND REFRIGERATION

OUR DEVICES ENABLE MORE EFFICIENT, COMPLIANT, CONNECTED SYSTEMS.

In the increasingly demanding world of HVAC systems, high efficiency, compliance and connectivity is a must. To meet these demands, more and technologically advanced sensors are needed. That's what Sensata delivers. Our application experts work with engineers one-on-one, every day, to help you increase energy efficiency and system reliability, achieve regulatory compliance, incorporate environmentally-friendly refrigerants and satisfy your appetite for new features and greater connectivity.

When you collaborate with Sensata, you gain our 30 years of experience as a leader in commercial HVAC systems. And with engineering and support specialists deployed around the world, you can count on Sensata to be there for you, when and where you need us.

APPLICATION OVERVIEW



Variable Refrigerant Flow Systems (VRF)



Light Commercial Air Conditioning



Bus/Train Air Conditioning



Residential Air Conditioning



Rooftops and Chillers



Control Units



Beverage Dispensing & Cooling



Supermarket Refrigeration (Showcase, Vertical Display cases, etc.)



Transport Refrigeration (Reefer Trucks, Cooled Cargo Containers, etc)

PRODUCT OVERVIEW

Pressure switches:

20PS & PS80 - automatic reset
25PS - automatic reset
29PS - manual reset

Pressure sensors:

116CP/117CP - ceramic capacitive 0 – 16 bar range
2CP5 & 35CP - ceramic capacitive 0 – 60 bar range
81/82CP - tif tube port 0 – 60 bar range
2HMP - oil filled mems, hermetic 0 – 70 bar range
112CP - integrated P+T 0 – 60 bar range
PTE7000 - hermetic 0 – 600 bar range
P99x - silicon capacitive 0 – 25 mBar range
P1K/P1J - piezo-resistive 0 - 25mBar range

Thermostats:

1NT and 3NT

For the PS80, 25 PS, 2CP5 & 81/82CP, and 3NT: ATEX compliant options are available.

Motor Protectors:

HM Motor Protector series
Phenolic Motor Protector series (3/4")

Sensata solutions for Air Conditioning and Refrigeration provide:

- Precise refrigerant pressure measurement and control
- Pressure sensing for efficient variable speed control & VRF systems
- Robust sensors and switches suitable for mobile refrigeration applications
- Integrated pressure and temperature sensors for reduced components
- Hermetic options for demanding HVAC environments
- Solutions available suitable for a variety of natural refrigerants (CO₂, ammonia, hydrocarbons)
- Long term reliability

Features and benefits of Sensata's products :

- Suitable for CO₂, ammonia, R290, R1234YF, R32, etc.
- Industry leading accuracy over wide operating ranges
- Fully stainless steel options available
- Broad operating temp. range (-40°C to +135°C)
- Hermetic and case isolated options available
- Outstanding EMC/ESD performance
- Overvoltage and reverse polarity protection
- ATEX certified pressure switches and sensors
- Pressure ranges of 0 – 70 bar, 0 – 600 bar, 0 – 25mBar
- Flexibility with ports, connectors and mounting options



Sensata Technologies is one of the world's leading suppliers of sensing, electrical protection, control and power management solutions with operations and business centers in twelve countries. Sensata's products improve safety, efficiency and comfort for millions of people every day in automotive, appliance, aircraft, industrial, military, heavy vehicle, heating, air-conditioning and ventilation, data, telecommunications, recreational vehicle and marine applications.

For more information, please visit Sensata's website.