



IAC 500 – measures ambient conditions in the room – absolute pressure, room temperature, humidity

IAC 500



Special features:

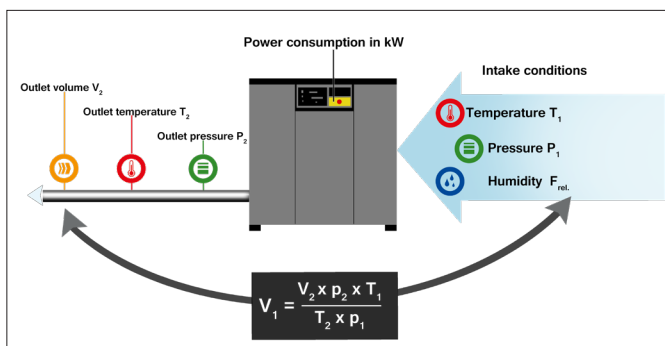
- 3 in 1 sensor: Absolute pressure, temperature and humidity in the room
- Modbus-RTU, Ethernet or M-Bus interface
- Alarm relay – limit value adjustable via buttons (max 60 VDC, 0.5 A)
- Optional: 2x 4...20 mA analog output, 2x alarm relays, e.g., for dew point and temperature

IAC 510



Special features:

- **3-in-1** sensor: absolute pressure, temperature and humidity in the room
- Modbus-RTU (RS 485)
- Two freely configurable analogue outputs, 4–20 mA, e.g. for humidity and temperature



The delivery rate of compressors depends on the intake air.

The installation site and the climate conditions must already be taken into account when designing compressed air stations.

Large temperature fluctuations, e.g. between day and night, lead to uneven compressed air flow.



Example order code IAC 500:

0604 1000_A1

Signal output option	
A1	1 x 4...20 mA analog output (galvanically not isolated), alarm relay, RS 485 (Modbus-RTU)
A2	2 x 4...20 mA analog output (galvanically not isolated), 2x alarm relay, RS 485 (Modbus-RTU)
A3	Ethernet interface (Modbus/TCP), 1 x 4...20 mA analog output (galvanically not isolated), RS 485 (Modbus-RTU)
A4	Ethernet interface PoE (Power over Ethernet) (Modbus/TCP), 1 x 4...20 mA analog output (galvanically not isolated), RS 485 (Modbus-RTU)
A5	M-Bus, 1 x 4...20 mA analog output (galvanically not isolated), alarm relay, RS 485 (Modbus-RTU)

DESCRIPTION	ORDER NO.
IAC 500 sensor for measuring ambient conditions (absolute pressure, temperature, rel. humidity), incl. wall bracket	0604 1000
Further accessories:	
Connection cable for probes 16 ft., with open ends	0553 0104
Connection cable for probes 32 ft., with open ends	0553 0105
Ethernet connection cable length 16 ft., M12 plug x-coded (8 pin) to RJ 45 plug	0553 2503
Ethernet connection cable length 32 ft., M12 plug x-coded (8 pin) to RJ 45 plug	0553 2504

Example order code IAC 510:

0604 1510_A1_B1_C1

Process connection	
A1	G 1/2"
A2	1/2" NPT
Scaling analog output 1	
B1	Relative humidity [%rF]
Scaling analog output 2	
C1	Temperature T (°C)
C2	Temperature T (°F)

Example order code cable for IAC 510:

0553 0145_A1

Cable 8-pin	
A1	5 m (16 ft)
A2	10 m (32 ft)
A3	variable on request

ACCESSORIES	ORDER -NR.
CS service software incl. interface cable to the PC (USB) and plug-in power supply - for configuration / parameterization of the IAC 510	0554 2010

TECHNICAL DATA of IAC	
Temperature	
Measuring range:	-68...+140°F,
Accuracy:	± 1.0 K (0...140°F) ± 1.25 K (-68...0°F)
Rel. humidity	
Measuring range:	5...95% rF
Accuracy:	± 3%
Absolute pressure	
measuring range:	300...1100 hPa (abs)
Accuracy	± 4 hPa
Voltage	
supply:	24 VDC, (IAC 500 - 18...36 V, IAC 510 - 10...36 V, via SELV supply) or Power over Ethernet (IEEE802.3af: Class 2 (3.84W - 6.49W))
Protection class of	
housing:	IAC 500 - IP 65 IAC 510 - IP 66
Operating temperature:	-68...+140°F
Ambient temperature:	-68...+140°F
Storage temperature:	-104...+176°F
Readable via	
Modbus:	Absolute pressure [hPa, mbar, bar, psi,...], dew point [°Ctd, °Ftd], temperature [°C, °F], rel. humidity [%RH], abs. humidity [g/m³].
Connection:	IAC 500 - M12, 5-polig IAC 510 - M12, 8-polig