



We digitalize
**Industrial
Process** with
**Innovation
& Invention**

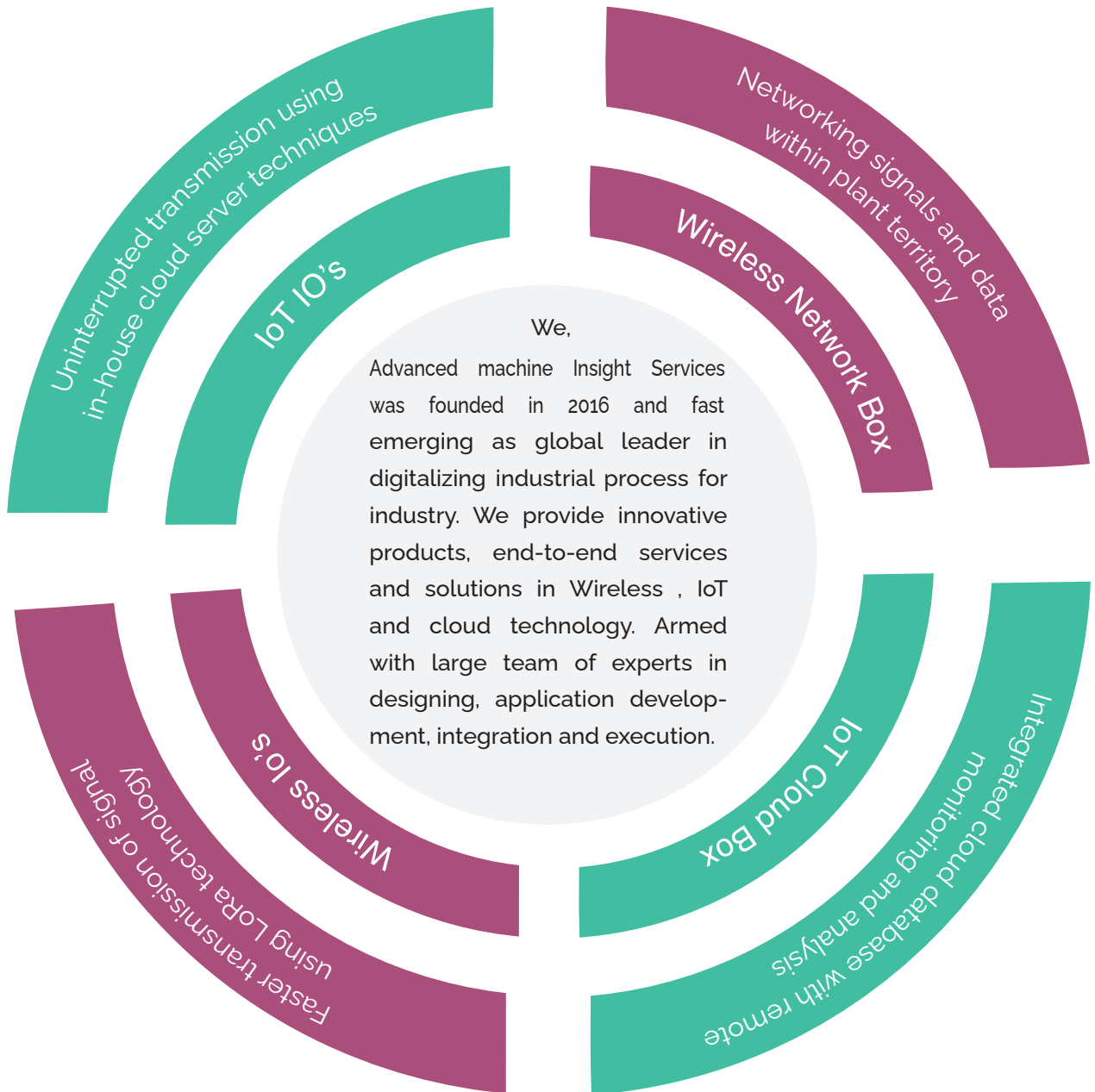


Product
CATALOGUE 2021



Wireless and IoT content

Wireless IoT's	3
IoT IO's	4
Wireless Network Box	5
IoT Cloud Box	6



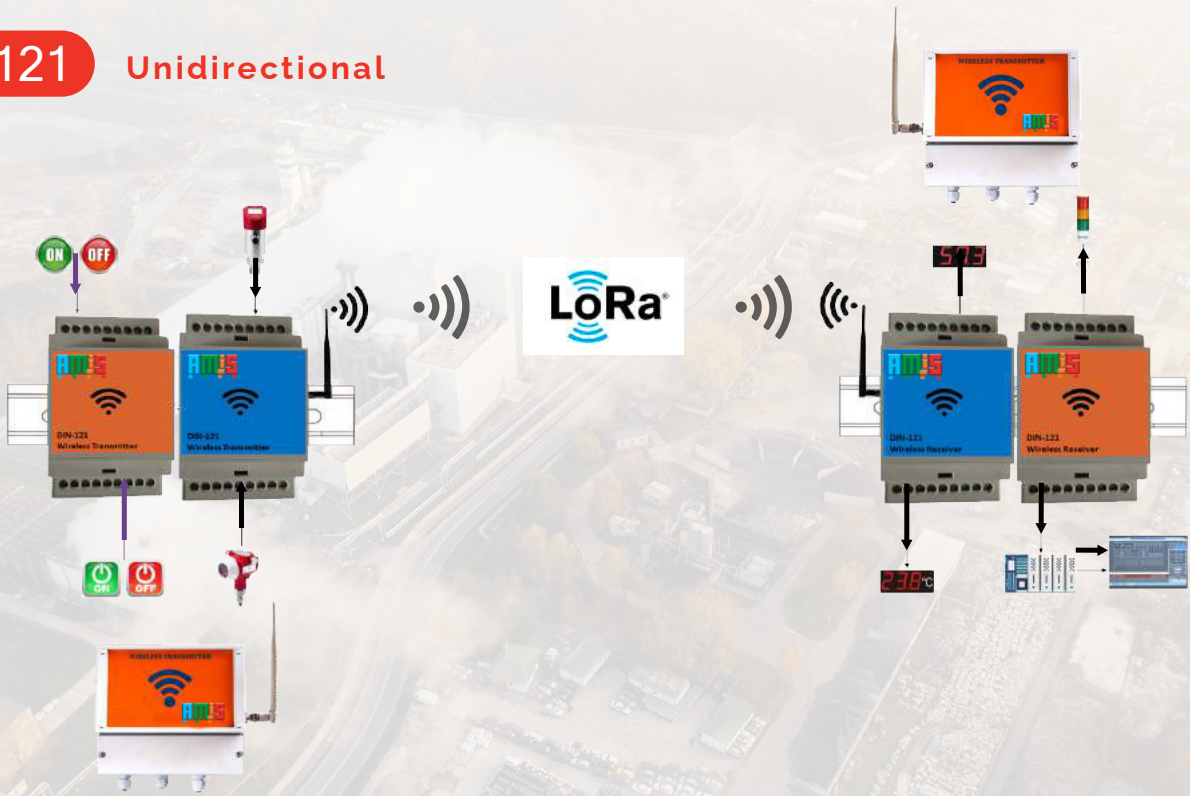
Digitalisation Improves

Manufacturing Responsiveness

Efficiency

Quality

PT 121 Unidirectional



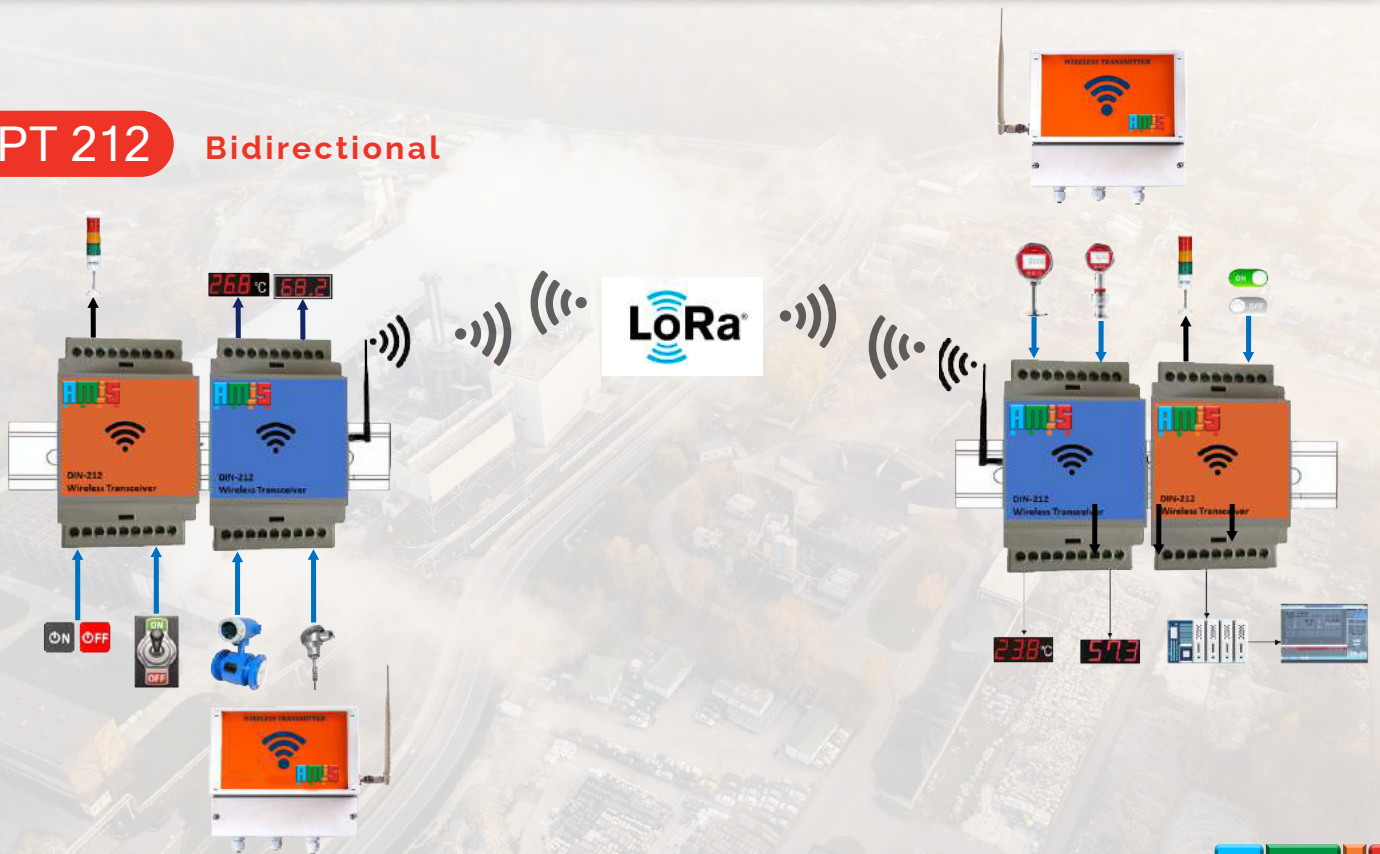
Point-to-Point Wirelss I/O's

- ❖ LoRa Technology
- ❖ Long Range 10kms and beyond
- ❖ Bi-Directional transceiver system
- ❖ Compatible to all I/O interfaces

Benefits:

- ❖ No signal wiring thus reduce cabling and maintenance cost
- ❖ Reducing inventory on spares and field work
- ❖ Making Intelligent existing devices
- ❖ Quick Access to controls

PT 212 Bidirectional



PT 121-C Unidirectional



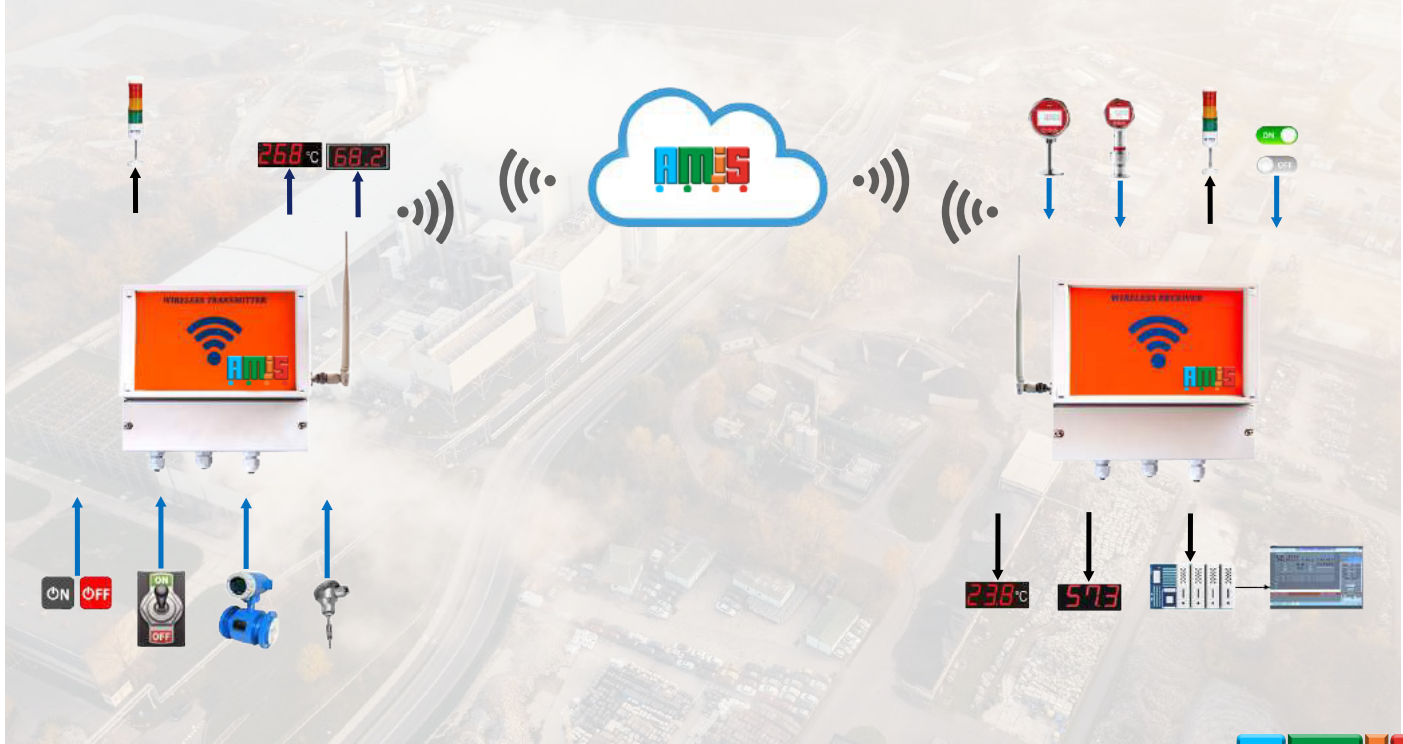
Point-to-Point IOT I/O's

- ❖ GSM Technology
- ❖ Unlimited distance coverage
- ❖ Compatible to all IO interfaces

Benefits:

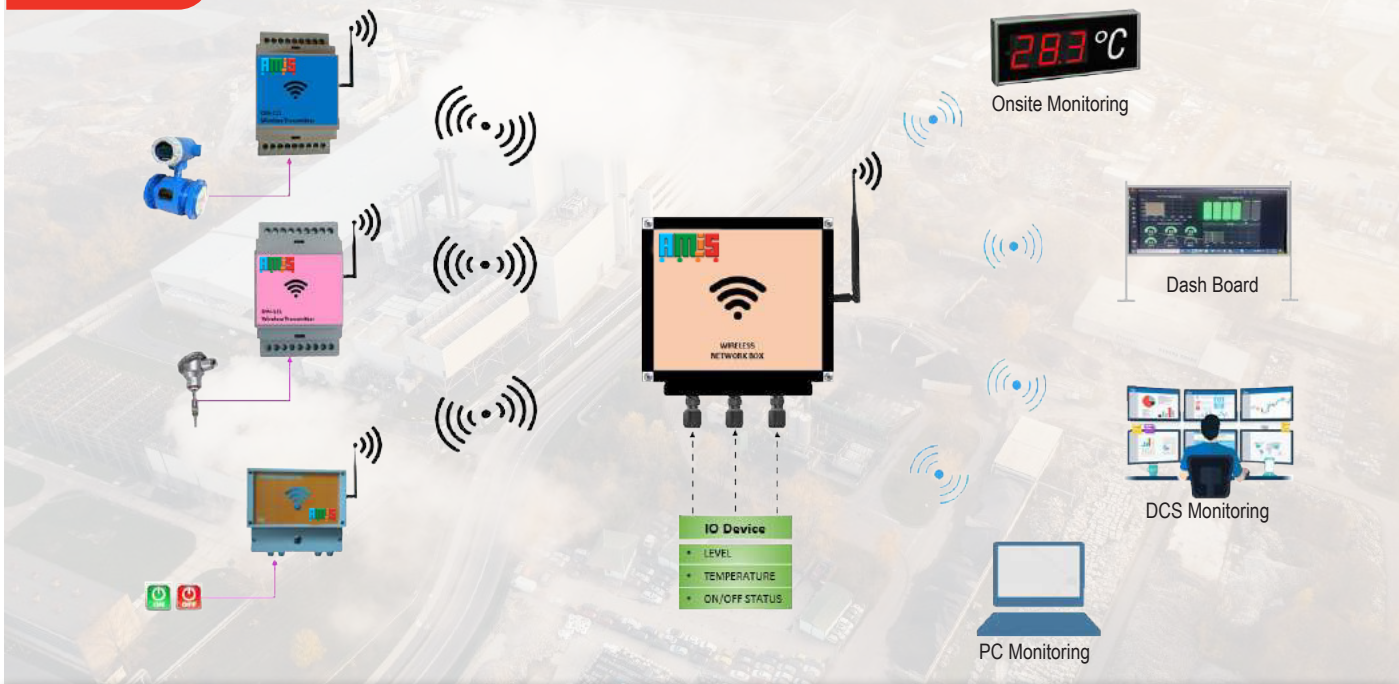
- ❖ Making Intelligent existing devices
- ❖ No signal wiring thus reduce cabling and maintenance cost
- ❖ Access anywhere any time
- ❖ Android and IoS mobile compatibility

PT 212-C Bidirectional



WIRELESS NETWORK BOX

PT9000



Point-to-Point IOT I/O's

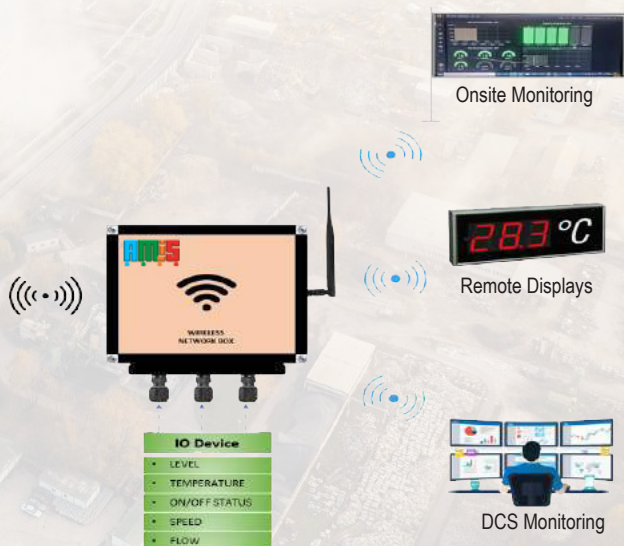
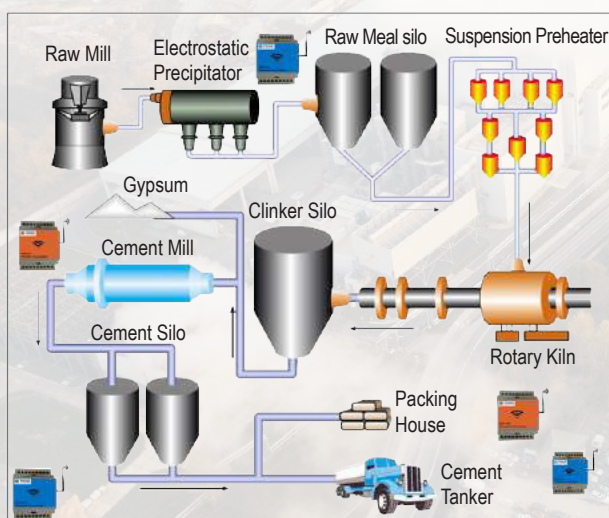
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Typical technical Schematic

Cement Manufacturing Process



PT7000



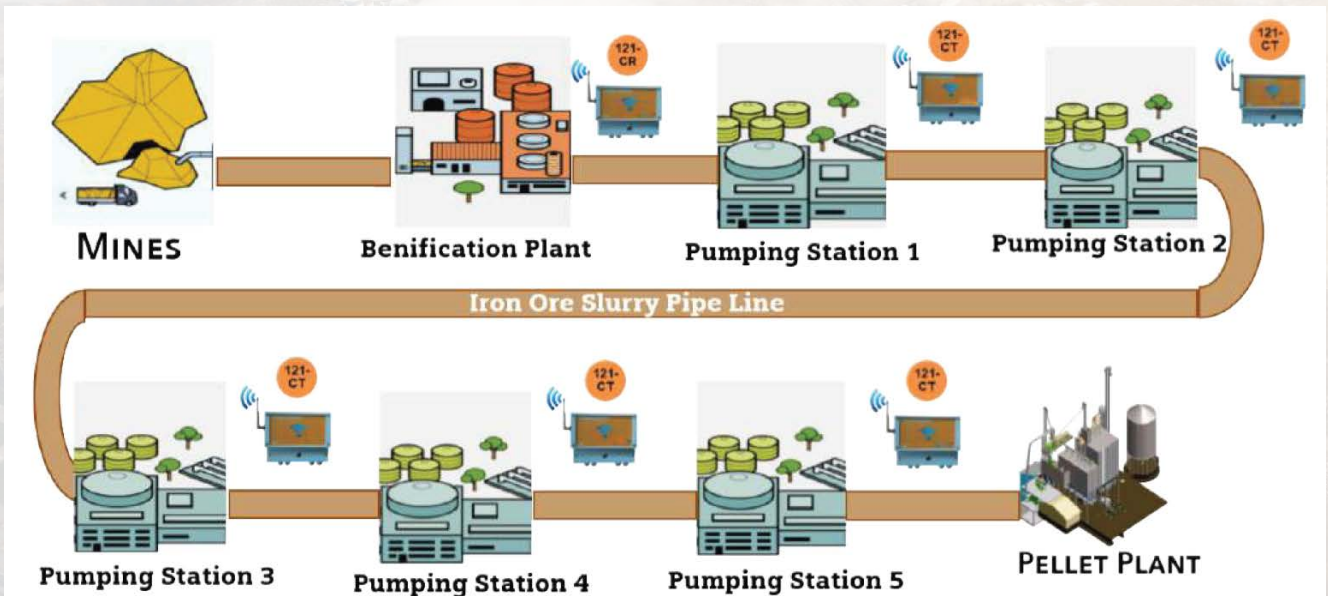
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Benefits:

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- ❖ Access anywhere any time
- ❖ Android and iOS mobile compatibility

Typical technical Schematic



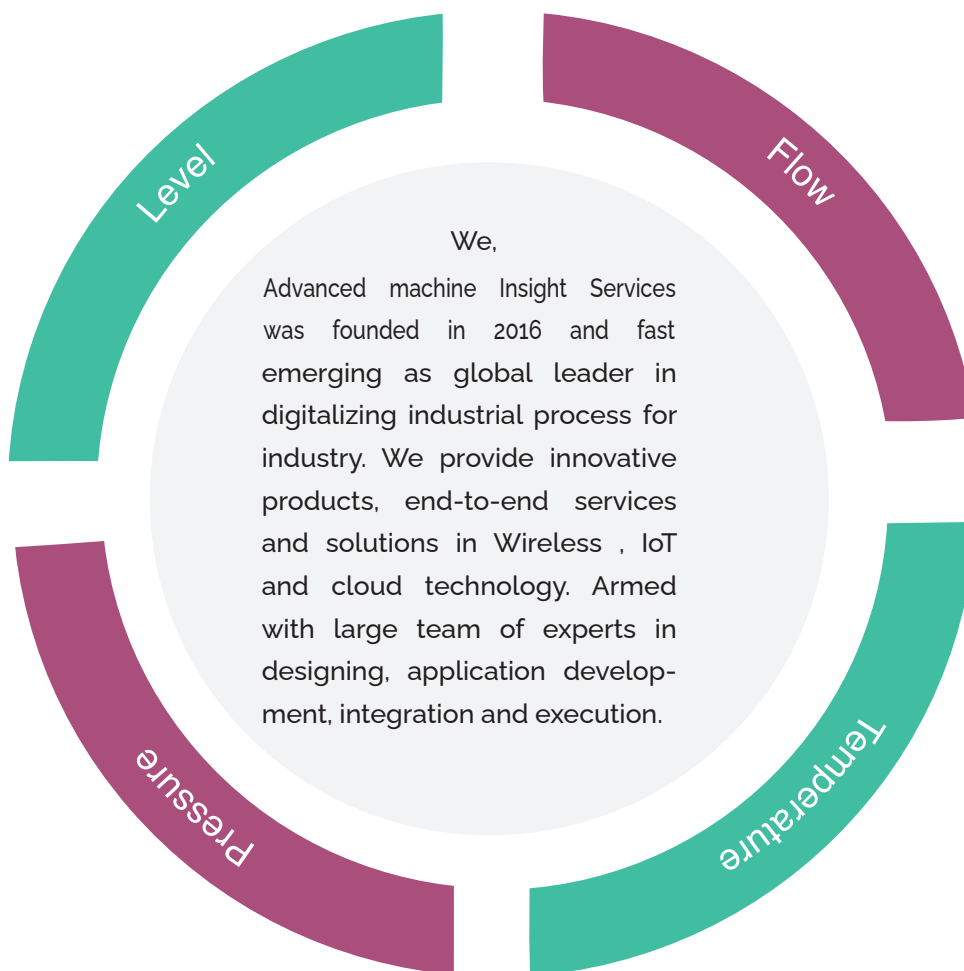
WIRELESS IO TRANSMISSION

Technical Specification	 	 	 	 
RF Frequency : 856-868 MHz	●	●		
Mobile Network : 4G/5G			●	●
No of Channel : 1,2,4,8,16	●	●	●	●
Analog Input/Output : 0-20mA or 4-20mA	●	●	●	●
Digital Input/Output : 24 dc or NO/NC	●	●	●	●
Distance transmission with Clear Line of sight upto 5km	●	●		
No limit on Distance Transmission [∞]			●	●
Mesh and Star Network of devices	●	●	●	●
Operating Voltage : 230v ac / 24 vdc	●	●	●	●
Default Transmission speed With clear line of Sight – 1 sec	●	●		
Operating Temperature : 0-60 Deg C	●	●		
Humidity : 0-90% , Non condensing	●	●		
Enclosure : Polycarbonate	●	●	●	●
Enclosure : DIN rail	●	●		
Protection : IP65	●	●	●	●
Rittal Panel : Option in case of more channels	●	●	●	●



Sensor content

Pressure	9
Level	11
Flow	13



Sense and Analyse with Artificial Intelligence

Melt



PT123

Pressure Range :
0~2000bar

Type of Pressure :
Absolute pressure

Operating Voltage :
12 – 36 v dc

Output Signal :
4-20 mA / 0-10 v / 0-3.3mV

Diaphragm Temp :
400 Deg C

Accuracy :
±0.5%F.S

Product Temperature :
(-10~300)°C

Environmental Temperature :
(0~75)°C

Protection Grades :
IP65

Response Rate
≤10msec

Long Term Stability :
0.2% and 0.5%/FS

Warranty :
One year

Steam



PT216

Pressure Range :
-0.1~10bar, 0~700bar

Type of Pressure :
Absolute pressure

Behavior of Electricity :
Two wire system
Three-wire system 0 ~ 10v
Three-wire system
Three-wire system

Output Signal :
(4~20)mA, (0~10)V, (0~5)V,
(0.5~4.5)V

Power Supply :
12~32Vdc, 12~32Vdc
10~32Vdc, 5Vdc

Overload Pressure :
1.5 times rated pressure

Product Temperature :
(-10~300)°C

Environmental Temperature :
(0~75)°C

Protection Grades :
IP65

Response Rate :
≤10msec

Long Term Stability :
0.2% and 0.5%/FS

Warranty :
One year

Acid



PT218

Pressure Range :
0~50bar

Type of Pressure :
Absolute pressure

Behavior of Electricity :
Two wire system
Three-wire system 0 ~ 10v
Three-wire system
Three-wire system

Output Signal :
(4~20)mA, (0~10)V, (0~5)V,
(0.5~4.5)V

Power Supply :
12~32Vdc, 12~32Vdc
10~32Vdc, 5Vdc

Overload Pressure :
1.5 times rated pressure

Product Temperature :
(-10~85)°C

Environmental Temperature :
(0~75)°C

Protection Grades :
IP65

Response Rate
≤10msec

Long Term Stability :
0.2% and 0.5%/FS

Warranty :
One year

General



PT-Series

Pressure Range :
0~10 bar,0~600bar

Accuracy :
±0.5% F.S

Overload Capacity:
1.5 times rated pressure

Breakdown Pressure:
3 times rated pressure

Pressure Type:
Gauge pressure

Electrical Environmental Temp :
-25°C ~ 85 °C

Mechanical Shock:
100g/1msec

Mechanical Vibration:
≤20g(15-2000Hz)

Temperature Drift :
≤0.04% /°C

Electrical Performance:
2-wire / 3-wire / 3-wire

Output:
4-20mA / 0-10 V / 0-5V

Response Time:
≤3msec / ≤10msec / ≤10msec

Supply:
10-30VDC / 12-30VDC / 10-30VDC

Overload Resistance:
(U-10)/0.02Ω / >25KΩ / >25KΩ

E-Connection:
lead-wire, M12×1 round connector, Hirschman connector

Ingress Protection:
IP65

Pressure Connector:
G1/4, 1/4NPT, G1/2, M20

Differential



Pressure Range:
0-100 KPa 0 – 10 MPa ;

Accuracy:
0.25%F.S/0.5%F.S ;

Signal Output:
4-20mA with Hart protocol;

Protection:
IP68; LED Digital Indicator;

High Accuracy:
+/-0.25%, +/-0.5% F.S Standard
4-20mA with HART

Protocol Optional Signal Output:
Two-wire 4 ~ 20mA isolated DC signal superimposed HART, digital signal output, can output large current not exceeding 22mA.

Power Supply:
DC 12 ~ 45V;

Display:
Intelligent LCD, backlight 5 digits and a half digital display;

Working Temperature:

Electronic Circuit:
- 40 ~ + 85 °C, with LCD: - 30 ~ + 80 °C

Sensitive Element (silicone oil filled):
- 40 ~ + 104 °C

Sensitive Element (filled with inert oil):
- 18 ~ + 71 °C

Differential with manifold



Pressure Range:
0-6890KPa~41370KPa ;

Accuracy:
0.25%F.S/0.5%F.S ;

Signal Output:
4-20mA with Hart protocol;

Protection:
IP68; LED Digital Indicator;

High Accuracy:
+/-0.25%, +/-0.5% F.S
Standard 4-20mA with HART Protocol

Optional Signal Output:
Two-wire 4 ~ 20mA isolated DC signal superimposed HART, digital signal output, can output large current not exceeding 22mA.

Power Supply:
DC 12 ~ 45V;

Display:
Intelligent LCD, backlight 5 digits and a half digital display;

Working Temperature:

Electronic Circuit:
- 40 ~ + 85 °C, with LCD: - 30 ~ + 80 °C

Sensitive Element (silicone oil filled):
- 40 ~ + 104 °C

Sensitive Element (filled with inert oil):
- 18 ~ + 71 °C

SENSOR**IMMERSION****LEVEL**

Water

**PT210**

Measurement Range :
0~1m H2O, 0~200m H2O

Medium:
Water

Operating Voltage
12 – 36 v dc

Output Signal :
4-20 mA - 2 Wire

Accuracy :
±0.5%F.S

Product Temperature :
(-10~60)°C

Environmental Temperature
(0~75)°C

Protection Grades :
IP65

Response Rate
≤3msec

Long Term Stability :
0.2% and 0.5%/FS

Overload Resistance :
(U-10)/0.02Ω

Ingress Protection :
IP68

Warranty :
One year

Acid

**PT220**

Measurement Range :
0~1m H2O, 0~200m H2O

Medium:
All corrosive medium compatible
with material 1Cr18Ni9Ti

Operating Voltage
12 – 36 v dc

Output Signal :
4-20 mA - 2 Wire

Accuracy :
±0.5%F.S

Product Temperature :
(-10~60)°C

Environmental Temperature
(0~75)°C

Protection Grades :
IP65

Response Rate
≤3msec

Long Term Stability :
0.2% and 0.5%/FS

Overload Resistance :
(U-10)/0.02Ω

Ingress Protection :
IP68

Warranty :
One year

Viscos product

**PT705**

Measurement Range :
0-30m

Frequency :
500 Mhz – 1.8 GHz

Operating Voltage :
12 – 36 v dc

Output Signal :
4-20 mA - 2 Wire/HART

Accuracy :
± 10mm

Antenna :
Single cable or single Pole Antenna

Environmental Temperature :
(0~75)°C

Protection Grades :
IP65

Response Rate :
≤3msec

Long Term Stability :
0.2% and 0.5%/FS

Overload Resistance :
(U-10)/0.02Ω

Ingress Protection :
IP68

Warranty :
One year

Radar



Measuring Range :

20m 30m 40m 50m 70m

Application :

All kinds of corrosive liquid/Powder

Process Connection :

Thread, Flange Process

Temperature :

-40°C~130°C

Process Pressure :

-0.1~0.3 MPa

Accuracy :

± 5mm

Frequency Range :

26GHz

Supply :

2-wire(DC24V) / 4-wire(DC24V /AC220V)

Signal Output :

4... 20mA /HART (2-wire / 4-wire) RS485/
Modbus

Outer Covering :

Aluminum / Plastic / Stainless steel Explosion-proof Grade
: ExiaIIC T6 Ga/ Exd IIC T6 Gb

Medium Temperature :

-40C~150C

Protection :

IP67

Ex Proof :

Exia IIC T6

Pressure :

Normal pressure

Color :

White, yellow

Ultrasonic



Level Range :

4,6,8,10,12,15,20,30m

Accuracy :

0.5%-1.0%

Resolution :

3mm or 0.1%

Display :

LCD Display

Analog Output :

2 Wire 4-20 mA

Power Supply :

DC24

Environmental Temperature :

Transmitter -20~+60°C , Sensor -20~+80°C

Communication :

HART

Protection Class :

Transmitter IP65(IP67 Optional),Sensor IP68

Probe Installation :

Flange , Thread

Electromagnetic



Conductivity:
>5 p S/cm

Velocity Range:
0.5~10m/s

Extended Range:
0.1~15m/s

Flow Direction:
Positive. Reverse, flow

Accuracy Level:
±0.2% ±0.3% ±0.5%

Repeatability:
±0.1% ±0.15% ±0.25%

Work Pressure:
< 4 .Ompa (DN10-80) /
<1,6mpa(DN!00~150) /
<1. Ompa (DN200-1000) /
<0.6mpa(DN1100-2200) / Special pres-
sure-resistant

Customized Fluid Temperature:
-25°C~60°C

Protection Level:
Stainless steel 316L IP68

Number of Electrodes:
2- 6

Lining Material:
Neoprene/Polychloroprene rub-
ber/-F4IPTFE) PTFE

Output Signal:
Standard current 4~20mA

Communication:
RS-485 / Hart

Power Supply:
DC24V10VA AC220V10VA working
environment

Humidity:
5%~90%

Turbine



Pressure Range:
1.6Mpa , 2.5Mpa , 4.0 Mpa ,
higher pressure specifications
can be customized

Measuring Medium:
Liquid, gas, steam

Accuracy Level:
±0.2% ±0.3% ±0.5%

Repeatability:
±0.1% ±0.15% ±0.25%

Work Pressure:
< 4 .Ompa (DN10-80) /
<1,6mpa(DN!00~150) /
<1. Ompa (DN200-1000) /
<0.6mpa(DN1100-2200) /

Temperature Range:

Piezoelectric Type:
pipe type -20°C ~ 350°C plug-in
type -10°C ~ 300°C capacitive
type: pipe type -50°C ~ 500°C
plug-in type -30°C ~ 450°C

Explosion-proof Mark:
Flameproof ExdIIBT5 Intrinsically
Safe ExialICT5

Protection:
IP68;

Vortex



Media :
Various Gases

Pipe Size :
Insertion type : DN50-DN2000mm
In-line type : DN10-DN2000mm Tri-
clamp
Thread type: DN15-100mm

Velocity:
0.1-100Nm/s

Accuracy :
+/-1~2.5%

Working Temperature:
Sensor:-40~+220 degC
Transmitter:-20~+45 degC

Working Pressure :
Insertion type ≤1.6Mpa
Flange type ≤4.0Mpa
Special pressure please
double check

Power Supply :
Compact type: 24VDC or 220VAC, Pow-
er consumption ≤18W

Response Time :
1 sec

Output :
4-20 mA , HART and RS485

Sensor Type :
Standard Insertion, Hot-tapped Insertion
and Flanged

Display :
4 lines LCD Mass flow, Volume flow in
nominal condition, Flow totalizer, Date
and time, Working time and Velocity,
etc.

Protection :
IP65