

ema electronic

*Linking your system*

- Flow Sensors
  - Smart
  - Flow + Temperature
  - Compact Flow
- Temperature Sensors
  - Smart
  - Transmitter
- Pressure Sensors
  - Smart
  - Transmitter-Analog Output
  - Transmitter-Switching Output

Flow Sensors

Temperature Sensors

Pressure Sensors



*Linking your system*

[www.ema-electronic.com](http://www.ema-electronic.com)

About ema

ema Electronics Ltd. is a professional manufacturer in the field of industrial switches and sensors, including automation and instrumental apparatus. Owing an outstanding R&D team which focus on the core technique and devoted to development and innovation, we provide our esteemed customers with All-in-One solutions as vertical integration including design, tooling, and production. We believe that the only way to offer the best industrial control system for customers is to be a total solution-provider. Through our enterprise concept, we can make our customers reduce the cost of operation, enhance the efficiency of work, and increase the quality plus the extra value of products. Moreover, ema has awarded to “iF Product Design Award 2008” and to be a member of AS-Interface association.

ema

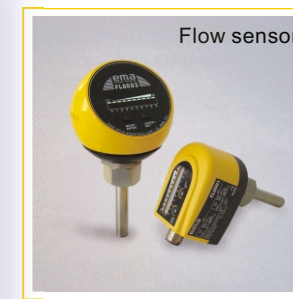
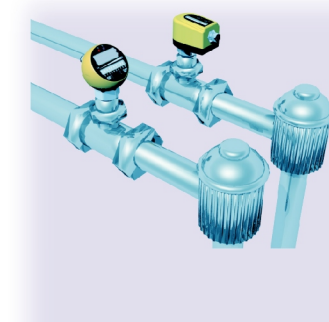
ema showroom



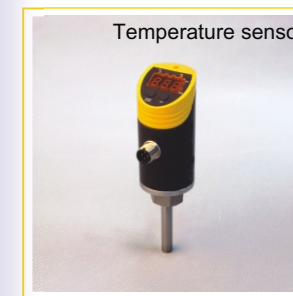
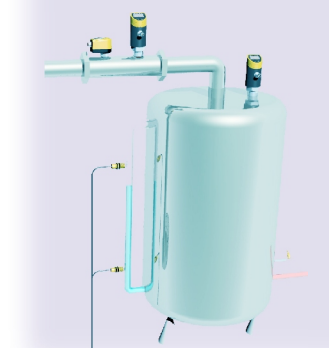
All ema products meet CE certification and RoHS directive of EU.

EMA have owned three main series in the category of Fluid Sensors up to now: Temperature, Pressure, and Flow Sensors. These series with similar operating principles due to the similar structures, detecting, MCU processing, output and display units. By the signals sampled via probes, fluid sensors operate the MCU (Multi Control Unit) to convert signals into digital ones which are displayed again as numerical values in a segmented display as 2-color LEDs. According to values set by the user they will be converted to digital or analog signals automatically. Users can control MCUs by using buttons on the housing. As long as the threshold value is reached, signals are generated. These outputs are the same with digital outputs (NPN / PNP outputs, hysteresis, NO / NC, window-function NO / NC); besides, pressure and temperature sensors generate analog signals (0-10V, 4-20mA). This series is completely protected from overload, short-circuit and reverse polarity. Protection rating is IP67.

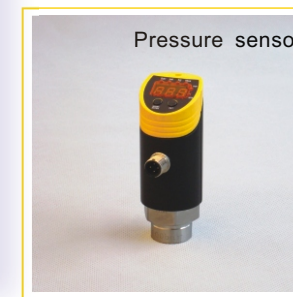
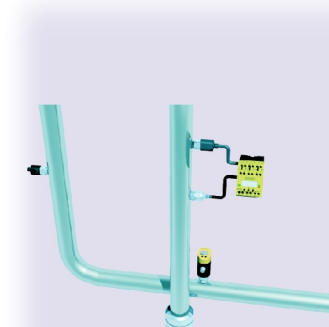
EMA as a professional manufacturer in the field of sensors, Flow + Temperature Sensors has been awarded with 「iF product design award 2008」 which is one of top-three world famous industrial design competitions. It is also marked as a “design Oscar” because all judges are composed of international and outstanding designers. In 2008, a jury of specialists evaluated 2771 entries from 35 different nations. The best of our F+T sensors were selected for an award because we are able to convince international judges of the highest caliber, The judges are extremely critical in the discussion with the standard of criteria, such as design quality, workmanship, degree of innovativeness and environmental compatibility. This award proves that the product of ema can meet customer's need with its workmanship and its innovative design which said “art of technology.” That is why we can get a solid agreement from those professional judges.



EMA's electronic flow sensors operate in accordance with theory of thermo-diffusion that the sensors are using a physical principle, flowing mediums absorption and heat transportation. There are two thermistors and one heater in the probes. This heat cause an increase in temperature in certain areas, and the increased part is detected by one probe of them. As long as the mediums passes by, the probe can cool down which is again detected by the thermistors. Absorption rate are put into relation to a rate of flow which is indicated on the unit. Flow direction and position of sensor do not matter because the unit works without mechanical parts.



ema's temperature sensor detects the operating temperature by RTD probe and then transmits the data to an examining circuit. After processing, the current operating temperature is displayed through LED and converted automatically into a digital (NPN, PNP) or an analog (0-10V, 4-20mA) signal.



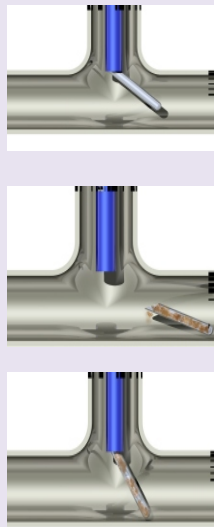
When the pressure acts on the interface of the ceramic-diaphragm, the diaphragm is deformed slightly. It is furthermore connected to a Wheatstone bridge through a thick-film-resistor in the back of the diaphragm. Due to the Piezo resistive Effect from voltage dependant resistors, the electric bridge will produce a high-linear voltage signal with a direct ratio to pressure. Then it is converted to a standard voltage signal which is then transmitted to the system. The 3-digit-segment display shows the value of pressure and then the value will be compared to setting points by the user. Finally, this value is converted to signals for switching output (NPN, PNP) or for analog output.

**Features**

FL series is an electronic device designed for monitoring a certain rate. Without mechanical components, this guarantees a reliable monitoring even in case of complex mediums over a long period. The purpose of FL series is to output a signal when the flow rate reaches the set-up range. Through control-calculation, FL series can proceed to warn or activate the chain of protection system in order to protect the key equipments and to avoid unexpected damage in production. It can not only successfully reduce the possibility of breakdown and the cost of maintenance, but also keep the countless reliability of operational safety and of economic benefits. FL series is provide stable and steady service and are useable in hazardous areas by adapting to the theory of thermo-diffusion. It can be inserted into the tube or the container and set up the flow rate to an expected value. FL series is an electronic flow sensor meant for modern industry. It is applied widely in highly developed countries and has surpassed traditional flow switches.



Mechanical Flow Switches



- Detect the flow mediums by the swing amplitude of themechanical paddles or probes.
- No matter of paddles or probes, the detection will be affected by the low sensitivity due to the rusty probes under a long-term working.
- Serious rustiness even causes the break of paddles or probes, and then falling probes may clog up the pipes or damage the machines. It not only makes the mechanical flow switches operate falsely ,but also face the derivational problems on the maintenance of pipe system and of machines.

Smart Flow Sensors



- Equipped with a mini probe, FL series does not effect the flow of mediums while detecting the flow rate.
- The unit is also useable for applications with a slow rate of flow which causes a slow fade in temperature at the probe. The other way round, fast rates of flow can also be detected very easily up to a maximum rate of flow.
- Using stainless steel for the probe means no rust and more accurate readings.

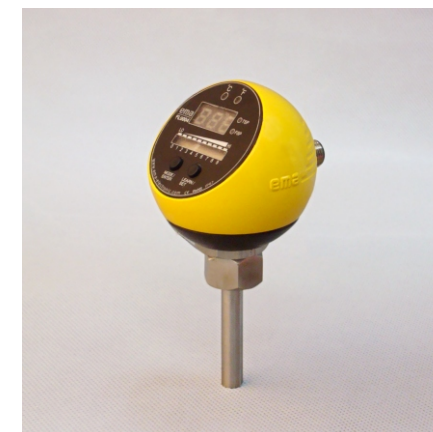
Flow + Temperature Sensor is the most progressive technique and is created exclusively to satisfy the demands of customers. It perfectly combines temperature sensor and flow sensor in one unit. The LED bar can display indication of the temperature and flow range aswell as output warning signals separately. With features such as high precision, usage of very small space, user-friendly handling and impressive design it can be applied in all industries. Those deal with electricity, sewage disposal, petroleum, chemical engineering,metallurgy, glass, coolant system, machinery production and more.

**Types**

EMA presents three current types in series of Flow Sensors: Smart Flow Sensors, Smart Flow + Temperature Sensors, and Compact Flow Sensors.



- Programmable smart flow sensor, user can set the flow range and the warning signal discretionarily
- Sensible substance: gas, liquids
- Display: LED
- Power protection: overload, short-circuit, reverse polarity



- Programmable smart flow + temperature sensor, and user can set the flow range and the warning signal discretionarily
- Visual indication makes control of this sensor easier
- Sensible substance: gas, liquids
- Display: LED
- Power protection: overload, short-circuit, reverse polarity
- Operating temperature: -25°C~80°C
- Sensing temperature: -25°C~80°C



- Stainless steel, concise structure, practical.
- High accuracy, high stability
- Sensible substance: gas, liquids
- Power protection: overload, short-circuit, reverse polarity
- Operating temperature: -25°C~80°C





- Programmable smart flow sensor, user can set flow range and warning signal discretionarily
- Sensible substance: gas, liquids
- Display: LED
- Power protection: overload, short-circuit, reverse polarity





**Order NO.**

Order NO.	Thread	Housing Material	Sensible Range Liquid (cm/s)	Sensible Range gas (cm/s)	Output	Operating Voltage (V)	Drawing No.
FL0001	M18 x 1.5	Plastics	3~300	200~3000	PNP NO / NC	20~36 DC	eF01
FL0002	M18 x 1.5	Plastics	3~300	200~3000	NPN NO / NC	20~36 DC	eF01
FL0003	M18 x 1.5	Aluminum Alloy	3~300	200~3000	Relay NO / NC	85~265 AC	eF02
FL0011	M18 x 1.5	Plastics	3~300	200~3000	4~20mA	20~36 DC	eF01

Notice: All standard probes are made of stainless steel 304, but those with stainless steel 316 are also available in accordance with customers' requests.

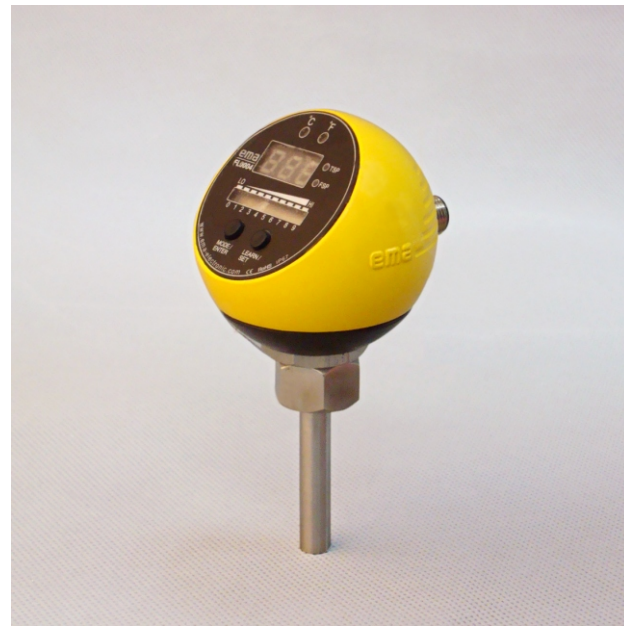
**Accessories**

Type	Socket Order No.						Drawing No.
 I	C	02	I	5	C	12	I: eF04
	C: Cable	Length 02: 2M 05: 5M 10: 10M	Connector I: Straight L: Angle	Core 4: 4 5: 5	Material R: PUR C: PVC	Socket size 12: M12	L: eF05
 L							

Order No.	US0001	US0002	US0003	US0007	US0009
Type					
	M18 x 1.5 – M12 x 1	M18 x 1.5 – G1/4"	M18 x 1.5 – G1/2"	M18 x 1.5 – Ø24mm	M18 x 1.5 – M18 x 1.5
Drawing No.	eF06	eF07	eF08	eF09	eF10

**Drawing No.**

Detailed dimension >>> P.28



- Programmable smart flow + temperature sensor, user can set flow range and warning signal discretionarily
- Visual indication makes the control of this sensor easier
- Sensible substance: gas, liquids
- Display: LED
- Power protection: overload, short-circuit, reverse polarity
- Operating temperature: -25°C~80°C
- Sensing temperature: -25°C~80°C



**Order NO.**

Order NO.	Thread	Housing Material	Sensible Range Liquid (cm/s)	Sensible Range gas (cm/s)	Output	Operating Voltage (V)	Drawing No.
FL0004	M18 x 1.5	Aluminum Alloy	3~300	200~3000	2 x PNP NO / NC	20~36 DC	eF02
FL0005	M18 x 1.5	Aluminum Alloy	3~300	200~3000	2 x NPN NO / NC	20~36 DC	eF02

Notice: All standard probes are made of stainless steel 304, but those with stainless steel 316 are also available in accordance with customers' requests.

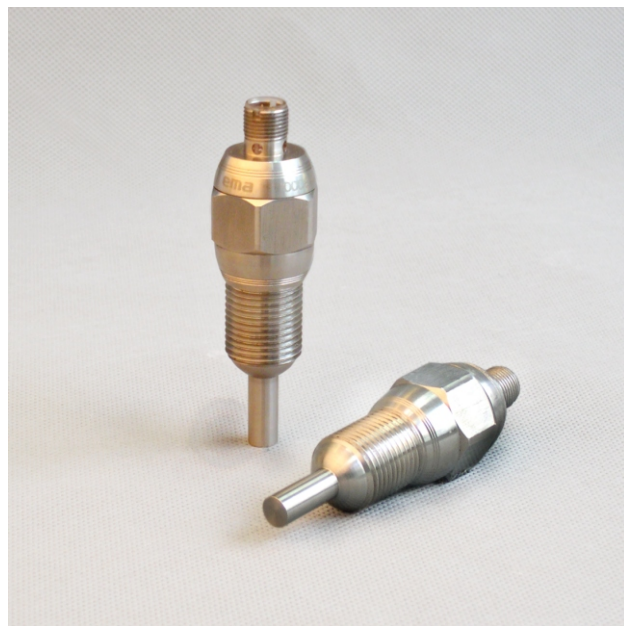
**Accessories**

Type	Socket Order No.						Drawing No.
	C	02	I	5	C	12	I: eF04
	C: Cable	Length 02: 2M 05: 5M 10: 10M	Connector I: Straight L: Angle	Core 4: 4 5: 5	Material R: PUR C: PVC	Socket size 12: M12	L: eF05
	L						

Order No.	US0001	US0002	US0003	US0007	US0009
Type					
	M18 x 1.5 – M12 x 1	M18 x 1.5 – G1/4"	M18 x 1.5 – G1/2"	M18 x 1.5 – Ø24mm	M18 x 1.5 – M18 x 1.5
Drawing No.	eF06	eF07	eF08	eF09	eF10

**Drawing No.**



Detailed dimension >>> P.28



- Stainless steel, concise structure practical.
- High accuracy, high stability
- Sensible substance: gas, liquids
- Power protection: overload, short-circuit, reverse polarity
- Operating temperature: -25°C~80°C



**Accessories**

Type	Socket Order No.						Drawing No.
 I   L	C	02	I	5	C	12	I: eF04
	C: Cable	Length 02: 2M 05: 5M 10: 10M	Connector I: Straight L: Angle	Core 4: 4 5: 5	Material R: PUR C: PVC	Socket size 12: M12	L: eF05

**Order NO.**

Order NO.	Thread	Housing Material	Sensible Range Liquid (cm/s)	Sensible Range gas (cm/s)	Output	Operating Voltage (V)	Drawing No.
FL0007	G1/2"	Stainless Steel	3~60	200~800	PNP NO / NC	20~36 DC	eF03
FL0008	G1/2"	Stainless Steel	3~60	200~800	NPN NO / NC	20~36 DC	eF03
FL0009	NPT1/2	Stainless Steel	3~60	200~800	PNP NO / NC	20~36 DC	eF03
FL0010	NPT1/2	Stainless Steel	3~60	200~800	NPN NO / NC	20~36 DC	eF03

Notice: All standard probes are made of stainless steel 304, but those with stainless steel 316 are also available in accordance with customers' requests.

**Drawing No.**

Detailed dimension >>> P.28



**Features**

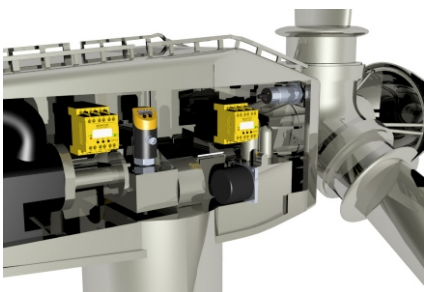
Temperature sensor is used very extensively in a variety of fields in industrial automation such as boiler system, cooling system, air-conditioner system, temperature control system of warehouse, and etc. ema's temperature sensor detects the operating temperature by RTD probe and then transmits the data to an examining circuit. After processing, the current operating temperature is displayed through LEDs. The signal is transferred automatically due to pre-set arrangements made by the user. Available are a digital (NPN / PNP) and an analog (0-10V, 4-20mA) signal.



Monitor temperature of cooling water of mould to increase or decrease the volume of flow of cooling water or to warn.

Detect pressure of enzymes or other chemicals in containers.

Detect temperature in liquid waste processing systems.



Detect temperature of oils in pipes of wind power equipments.

**Drawing No.**

Detailed dimension

>>> P.29

**Types**

EMA presents two current types in series of Temperature Sensors: Smart Temperature Sensors and Temperature Transmitters.



- Programmable smart temperature sensor, user can set the temperature range and warning signal discretionarily. offering 2 units of temperature, °C and °F, to be converted
- Visual indication makes the control of this sensor easier
- Sensible substance: gas, liquids
- Sensing temperature: -40°C~150°C
- Display: LED
- Power protection: overload, short-circuit, reverse polarity



- Concise structure and practical.
- High accuracy, high stability, and Resistant to interruption.
- Sensible substance: gas, liquids
- Power protection: overload, short-circuit, reverse polarity
- Sensing temperature: -40°C~+150°C





- Programmable smart temperature sensor, user can set the temperature range and warning signal discretionarily. offering 2 units of temperature, °C and °F, to be converted
- Visual indication makes the control of this sensor easier
- Sensible substance: gas, liquids
- Sensing temperature: -40°C~150°C
- Display: LED
- Power protection: overload, short-circuit, reverse polarity








**Order NO.**

Order No.	Display	Thread	Electric design	Input voltage (V)	Output 1	Output 2	Drawing No.
TA1001	M18 x 1.5	7 LED	4 Wire	18~36 DC	PNP NO / NC, NPN NO / NC	0~10V, 4~20mA	eT01
TA1002	M18 x 1.5	7 LED	4 Wire	18~36 DC	PNP NO / NC, NPN NO / NC	PNP NO / NC, NPN NO / NC	eT01

Notice: All standard probes are made of stainless steel 304, but those with stainless steel 316 are also available in accordance with customers' requests.

**Accessories**

Type	Socket Order No.						Drawing No.
	C	02	I	5	C	12	I: eT03
	C: Cable	Length 02: 2M 05: 5M 10: 10M	Connector I: Straight L: Angle	Core 4: 4 5: 5	Material R: PUR C: PVC	Socket size 12: M12	L: eT04

Order No.	US0001	US0002	US0003	US0007	US0009
Type					
	M18 x 1.5 – M12 x 1	M18 x 1.5 – G1/4"	M18 x 1.5 – G1/2"	M18 x 1.5 – Ø24mm	M18 x 1.5 – M18 x 1.5
Drawing No.	eF06	eF07	eF08	eF09	eF10

**Drawing No.**

Detailed dimension >>> P.29







- Concise and practical structure.
- High accuracy, high stability, and resistant to interruptions
- Sensible substance: gas, liquids
- Power protection: overload, short-circuit, reverse polarity
- Sensing temperature: -40°C~+150°C



**Accessories**

Type	Socket Order No.						Drawing No.
 I   L	C	02	I	5	C	12	I: eT03
	C: Cable	Length 02: 2M 05: 5M 10: 10M	Connector I: Straight L: Angle	Core 4: 4 5: 5	Material R: PUR C: PVC	Socket size 12: M12	L: eT04

**Drawing No.**

Detailed dimension >>> P.29

**Order NO.**

Order No.	Display	Thread	Electric design	Input voltage (V)	Output	Drawing No.
TC0001	G1/2"	--	4 Wire	18~36 DC	4~20mA	eT02
TC0002	G1/2"	--	4 Wire	18~36 DC	0~10V	eT02

Notice: All standard probes are made of stainless steel 304, but those with stainless steel 316 are also available in accordance with customers' requests.

**Features**

Pressure sensors are applied to a variety of fields in industrial automation such as water conservancy, hydroelectric industry, intelligent architecture, automation control, aviation, military industry, petrochemical industry, electric power, shipping, machinery tools, and more. When the pressure acts on the interface of the ceramic diaphragm, the diaphragm is deformed slightly and then connected as a Wheatstone bridge through the thick film resistor printed in the back of the diaphragm. It is furthermore connected to a Wheatstone bridge through a thick-film-resistor in the back of the diaphragm. Due to the Piezo Resistive Effect from voltage dependant resistors, the electric bridge will produce a high-linear voltage signal with a direct ratio to pressure. Then it is converted to a standard voltage signal which is then transmitted to the system. The 3-digit-segment display shows the value of pressure and the value will be compared to setting points by the user. Finally, this value is converted to signals for switching output (NPN, PNP) or for analog output.



Measure and control the pressure of gas and of liquid in the pipeline transportation systems.

Monitor the pressure values of the oils of cutting machines.

Monitor the pressure in the oiling cylinders, oil circuits, and oil pipes in order to secure the oil circuits and to



Detect pressure of oils in pipes in wind power equipments.

Detect pressure of enzymes or other chemicals in containers.

Monitor pressure of liquids in the containers, and warn while the pressure detected is over that set by users.



Detect pressure in liquid waste processing systems.

Measure and control the pressure of gas and of liquids.

Detect pressure of materials in extracting systems controlled by motors.

**Drawing No.**

Detailed dimension

>>> P.30

**Types**

EMA presents two current types in series of Pressure Sensor: Smart Pressure Sensors and Pressure Transmitters.



- Programmable smart pressure sensor, user can set the pressure range and the warning signal discretionarily. Offering 4 units of pressure, Bar, Kg/cm<sup>2</sup>, Mpa, and PSI
- Display: LED
- Power protection: overload, short-circuit, reverse polarity
- Delivers high accuracy, high stability and is anticorrosive



- Concise and practical structure
- Power protection: overload, short-circuit, reverse polarity
- High accuracy, high stability, and strong resistance to shock
- Sensible substance: gas, liquids and steam pressure
- Analog output: 4~20mA、0~10V





- Concise and practical structure
- Power protection: overload, short-circuit, reverse polarity
- High accuracy, high stability, and strong resistance to shock
- sensible substance: air, liquid and steam pressure
- Analogical output: 4~20mA、0~10V






- Programmable smart pressure sensor, user can set the pressure range and the warning signal discretionarily. Offering 4 units of pressure, Bar, Kg/cm<sup>2</sup>, Mpa, and PSI, to be converted
- Display: LED
- Power protection: overload, short-circuit, reverse polarity
- Delivers high accuracy, high stability and is anticorrosive



**Accessories**

Type	Socket Order No.						Drawing No.
 I	C	02	I	5	C	12	I: eP03
	C: Cable	Length 02: 2M 05: 5M 10: 10M	Connector I: Straight L: Angle	Core 4: 4 5: 5	Material R: PUR C: PVC	Socket size 12: M12	L: eP04
 L							

Order No.	US0004	US0005	US0006
Type			
	G1/4" – G1/2"	G1/4" – G1/4"	G1/4" – M20 x 1.5
Drawing No.	eP05	eP06	eP07

**Drawing No.**

Detailed dimension >>> P.30

**Order NO.**

Order No.	Thread	Display	Sensing range (bar)	Electric design	Input voltage (V)	Output 1	Output 2	Drawing No.
PA1101	G1/4"	7 LED	2	4 Wire	18~36 DC	PNP NO / NC, NPN NO / NC	0~10V, 4~20mA	eP01
PA1102	G1/4"	7 LED	5	4 Wire	18~36 DC	PNP NO / NC, NPN NO / NC	0~10V, 4~20mA	eP01
PA1103	G1/4"	7 LED	10	4 Wire	18~36 DC	PNP NO / NC, NPN NO / NC	0~10V, 4~20mA	eP01
PA1104	G1/4"	7 LED	20	4 Wire	18~36 DC	PNP NO / NC, NPN NO / NC	0~10V, 4~20mA	eP01
PA1105	G1/4"	7 LED	50	4 Wire	18~36 DC	PNP NO / NC, NPN NO / NC	0~10V, 4~20mA	eP01
PA1106	G1/4"	7 LED	100	4 Wire	18~36 DC	PNP NO / NC, NPN NO / NC	0~10V, 4~20mA	eP01
PA1107	G1/4"	7 LED	200	4 Wire	18~36 DC	PNP NO / NC, NPN NO / NC	0~10V, 4~20mA	eP01
PA1108	G1/4"	7 LED	400	4 Wire	18~36 DC	PNP NO / NC, NPN NO / NC	0~10V, 4~20mA	eP01
PA1109	G1/4"	7 LED	2	4 Wire	18~36 DC	PNP NO/NC,NPN NO/NC	PNP NO/NC,NPN NO/NC	eP01
PA1110	G1/4"	7 LED	5	4 Wire	18~36 DC	PNP NO/NC,NPN NO/NC	PNP NO/NC,NPN NO/NC	eP01
PA1111	G1/4"	7 LED	10	4 Wire	18~36 DC	PNP NO/NC,NPN NO/NC	PNP NO/NC,NPN NO/NC	eP01
PA1112	G1/4"	7 LED	20	4 Wire	18~36 DC	PNP NO/NC,NPN NO/NC	PNP NO/NC,NPN NO/NC	eP01
PA1113	G1/4"	7 LED	50	4 Wire	18~36 DC	PNP NO/NC,NPN NO/NC	PNP NO/NC,NPN NO/NC	eP01
PA1114	G1/4"	7 LED	100	4 Wire	18~36 DC	PNP NO/NC,NPN NO/NC	PNP NO/NC,NPN NO/NC	eP01
PA1115	G1/4"	7 LED	200	4 Wire	18~36 DC	PNP NO/NC,NPN NO/NC	PNP NO/NC,NPN NO/NC	eP01
PA1116	G1/4"	7 LED	400	4 Wire	18~36 DC	PNP NO/NC,NPN NO/NC	PNP NO/NC,NPN NO/NC	eP01



Notice: All standard probes are made of stainless steel 304, but those with stainless steel 316 are also available in accordance with customers' requests.






- Concise and practical structure
- Power protection: overload, short-circuit, reverse polarity
- High accuracy, high stability, and strong resistance to shock  
Sensible substance: gas, liquids and steam pressure
- Analogical output: 4~20mA、0~10V



**Accessories**

Type	Socket Order No.						Drawing No.
 I	C	02	I	5	C	12	I: eP03
	C: Cable	Length 02: 2M 05: 5M 10: 10M	Connector I: Straight L: Angle	Core 4: 4 5: 5	Material R: PUR C: PVC	Socket size 12: M12	L: eP04
 L							

Order No.	US0004	US0005	US0006
Type			
	G1/4" – G1/2"	G1/4" – G1/4"	G1/4" – M20 x 1.5
Drawing No.	eP05	eP06	eP07

**Drawing No.**

Detailed dimension >>> P.30

**Order NO.**

Order No.	Thread	Display	Sensing range (bar)	Input voltage (V)	Electric design	Output 1	Output 2	Drawing No.
PB1101	G1/4"	--	2	8~36 DC	2 Wire	4~20mA	No	eP02
PB1102	G1/4"	--	2	16~36 DC	3 Wire	0~10V	No	eP02
PB1103	G1/4"	--	5	8~36 DC	2 Wire	4~20mA	No	eP02
PB1104	G1/4"	--	5	16~36 DC	3 Wire	0~10V	No	eP02
PB1105	G1/4"	--	10	8~36 DC	2 Wire	4~20mA	No	eP02
PB1106	G1/4"	--	10	16~36 DC	3 Wire	0~10V	No	eP02
PB1107	G1/4"	--	20	8~36 DC	2 Wire	4~20mA	No	eP02
PB1108	G1/4"	--	20	16~36 DC	3 Wire	0~10V	No	eP02
PB1109	G1/4"	--	50	8~36 DC	2 Wire	4~20mA	No	eP02
PB1110	G1/4"	--	50	16~36 DC	3 Wire	0~10V	No	eP02
PB1111	G1/4"	--	100	8~36 DC	2 Wire	4~20mA	No	eP02
PB1112	G1/4"	--	100	16~36 DC	3 Wire	0~10V	No	eP02
PB1113	G1/4"	--	200	8~36 DC	2 Wire	4~20mA	No	eP02
PB1114	G1/4"	--	200	16~36 DC	3 Wire	0~10V	No	eP02
PB1115	G1/4"	--	400	8~36 DC	2 Wire	4~20mA	No	eP02
PB1116	G1/4"	--	400	16~36 DC	3 Wire	0~10V	No	eP02



Notice: All standard probes are made of stainless steel 304, but those with stainless steel 316 are also available in accordance with customers' requests.






- Concise structure and practical.
- Power protection: overload, short-circuit, reverse polarity
- High accuracy, high stability, and strong resistance to shock
- Sensible substance: gas, liquids and steam pressure
- Digital output: PNP NO/NC, NPN NO/NC
- This unit can also be programmed by untrained but skillful programmer.



**Accessories**

Type	Socket Order No.						Drawing No.
 I	C	02	I	5	C	12	I: eP03
	C: Cable	Length 02: 2M 05: 5M 10: 10M	Connector I: Straight L: Angle	Core 4: 4 5: 5	Material R: PUR C: PVC	Socket size 12: M12	L: eP04
 L							

Order No.	US0004	US0005	US0006
Type			
	G1/4" – G1/2"	G1/4" – G1/4"	G1/4" – M20 x 1.5
Drawing No.	eP05	eP06	eP07

**Drawing No.**

Detailed dimension >>> P.30

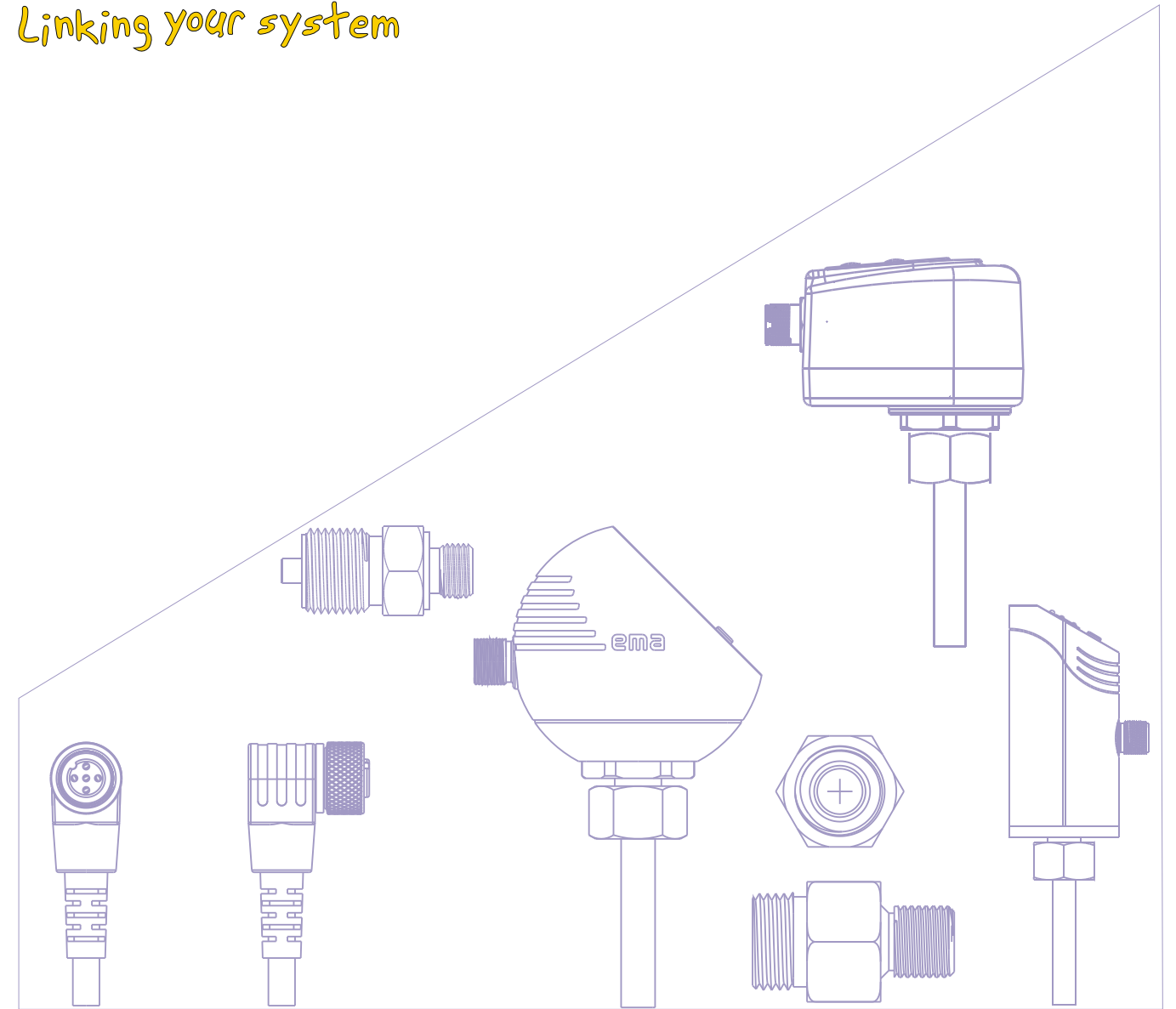
**Order NO.**

Order No.	Thread	Display	Sensing range (bar)	Input voltage (V)	Electric design	Output 1	Programmable	Drawing No.
PC1101	G1/4"	--	2	18~36 DC	5 Wire	PNP NO / NC	Yes	eP02
PC1102	G1/4"	--	5	18~36 DC	5 Wire	PNP NO / NC	Yes	eP02
PC1103	G1/4"	--	10	18~36 DC	5 Wire	PNP NO / NC	Yes	eP02
PC1104	G1/4"	--	20	18~36 DC	5 Wire	PNP NO / NC	Yes	eP02
PC1105	G1/4"	--	50	18~36 DC	5 Wire	PNP NO / NC	Yes	eP02
PC1106	G1/4"	--	100	18~36 DC	5 Wire	PNP NO / NC	Yes	eP02
PC1107	G1/4"	--	200	18~36 DC	5 Wire	PNP NO / NC	Yes	eP02
PC1108	G1/4"	--	400	18~36 DC	5 Wire	PNP NO / NC	Yes	eP02
PC1109	G1/4"	--	2	18~36 DC	5 Wire	NPN NO / NC	Yes	eP02
PC1110	G1/4"	--	5	18~36 DC	5 Wire	NPN NO / NC	Yes	eP02
PC1111	G1/4"	--	10	18~36 DC	5 Wire	NPN NO / NC	Yes	eP02
PC1112	G1/4"	--	20	18~36 DC	5 Wire	NPN NO / NC	Yes	eP02
PC1113	G1/4"	--	50	18~36 DC	5 Wire	NPN NO / NC	Yes	eP02
PC1114	G1/4"	--	100	18~36 DC	5 Wire	NPN NO / NC	Yes	eP02
PC1115	G1/4"	--	200	18~36 DC	5 Wire	NPN NO / NC	Yes	eP02
PC1116	G1/4"	--	400	18~36 DC	5 Wire	NPN NO / NC	Yes	eP02

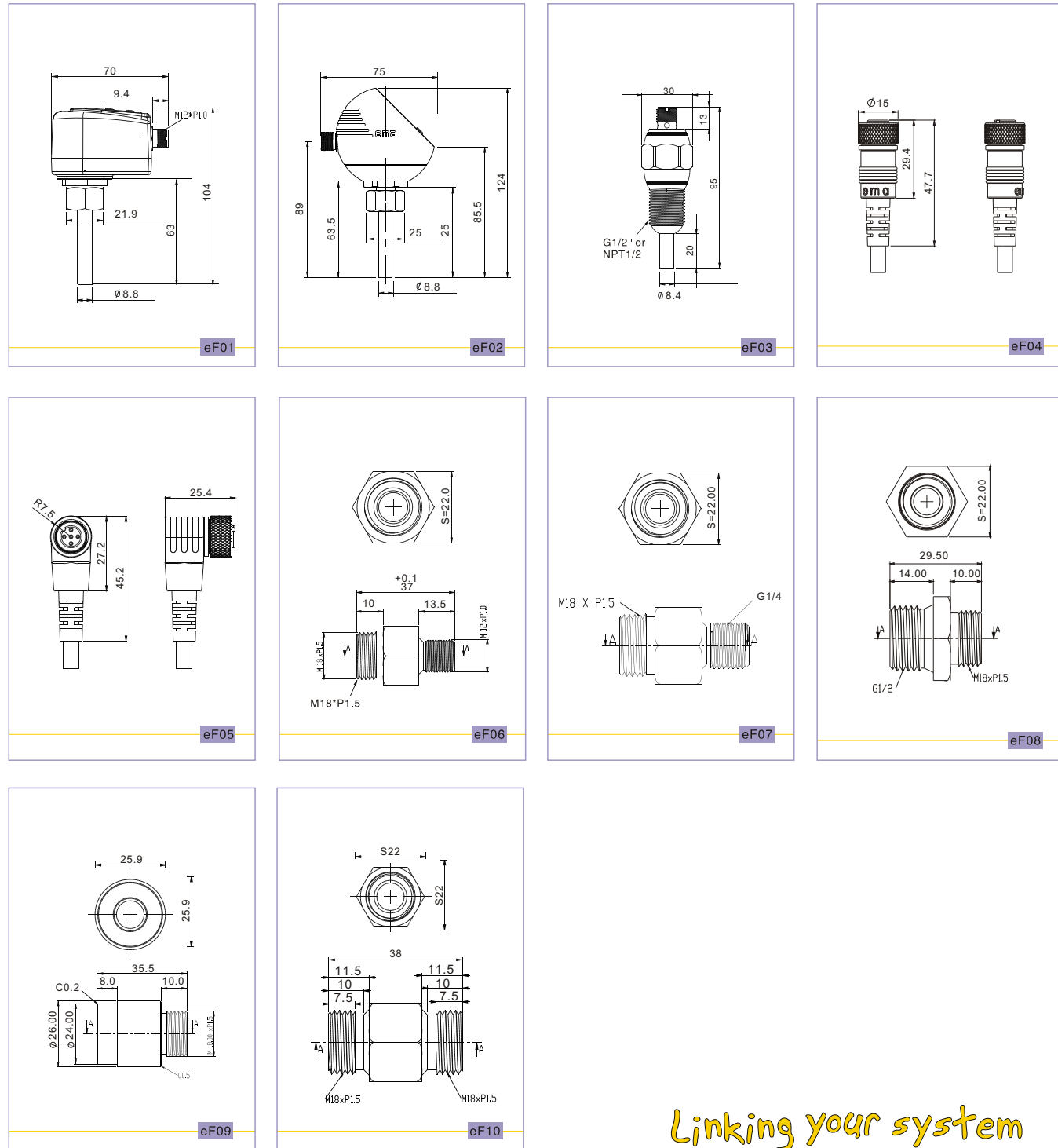
Notice: All standard probes are made of stainless steel 304, but those with stainless steel 316 are also available in accordance with customers' requests.

Drawings

Linking your system

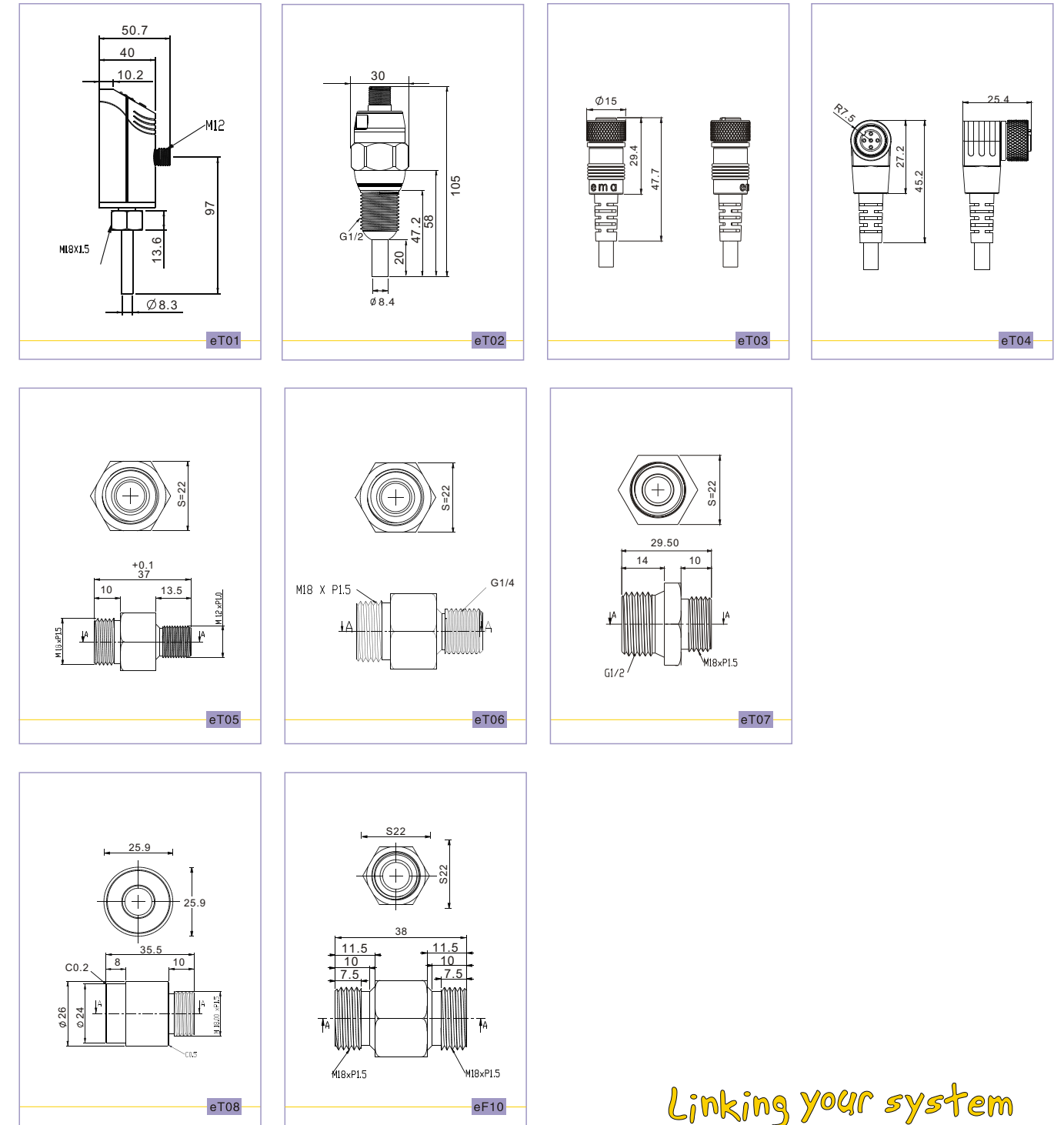


Flow Sensors



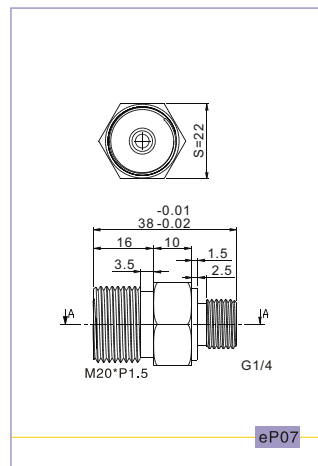
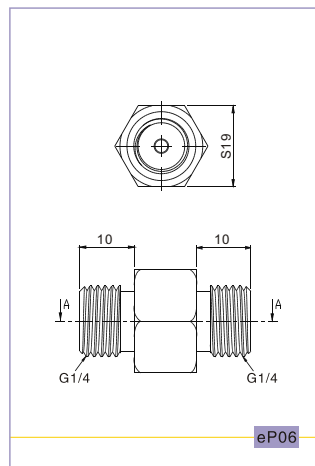
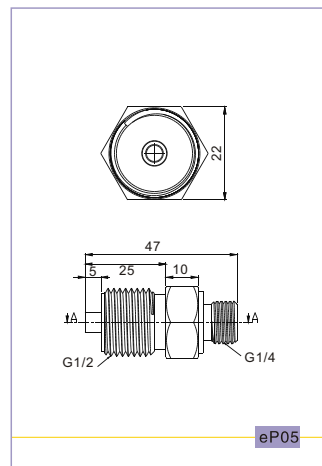
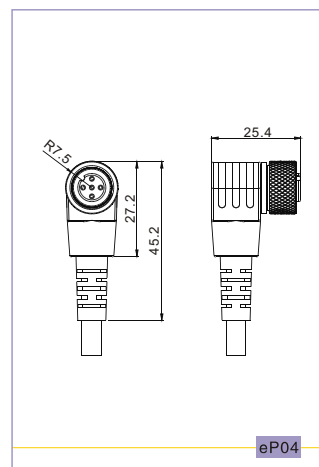
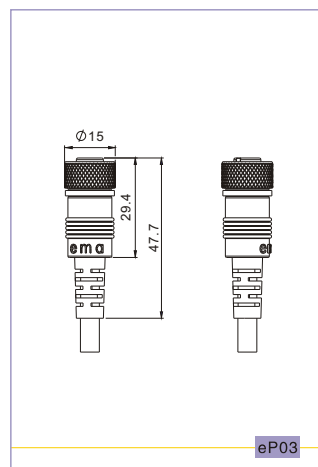
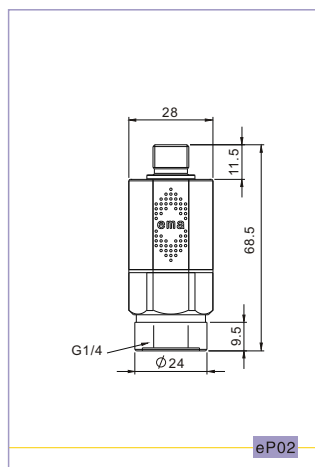
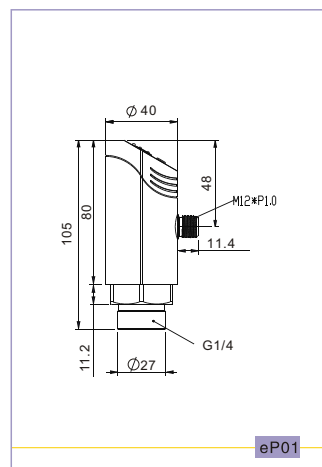
Linking your system

Temperature Sensors



Linking your system

Pressure Sensors



Linking your system