

F500SR 4-20mA

Remote Seal and Pressure Transmitter





www.fosten.com.br

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1. OPERATION PRINCIPLE

The intelligent pressure transmitter **F500** is based on the capacitive sensor principle. Capacitive sensors are devices that receive and respond to a physical/chemical stimulus or signal. In turn, this technology is based on the capacitor concept, being able to detect the presence of objects without their contact. The sensor is triggered when it detects the presence of the object at a certain distance. The operating principle is based on changing the capacitance of



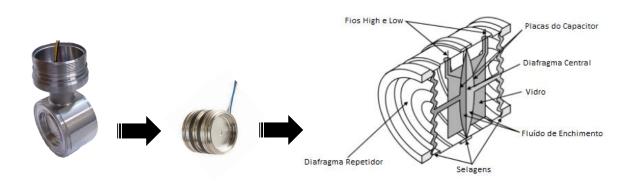
the detector plate located in the region called sensitive.

But what is a capacitor? A capacitor is a simple device, being a passive electronic component that stores charge and energy in the electrostatic field. It consists of two electrical conductors (known as plates) that store opposite charges. These plates are separated by a special type of isolator (ie, a nonconductor) known as a dielectric. Because these plates have opposite charges, the storage process is characterized by the movement and transfer of electrons from one plate to another. The potential difference caused by this movement is the same as the potential energy stored in the plate. The capacitance of a capacitor is the ratio of the potential difference (PDD) between the plates and the charge on each of the plates. In turn, the capacitance is inversely proportional to the distance between the plates and directly proportional to the area of the plates and the isolating material. Based on this concept on capacitors, the

capacitive sensors work in a very similar way to the capacitor. The difference is in the way the plates are arranged. In the sensors, the plates are arranged parallel to each other. The operating principle is based on the change in the capacitance of the detector plate located in the region called sensitive, that is, when the dielectric in the middle varies.

The functioning of this capacitive sensor, in turn, is based on the variation of the electric field in the place in front of the electrode of the sensor, which we call the active zone. The sensor will be activated when the object approaches a certain distance and it is positioned in front of the active zone. The distance at which the sensor is triggered is called the switching distance, which can vary greatly depending on the permittivity constant in the diameter of the sensor also comprises an integrated RC oscillator circuit. As a metallic or non-metallic substance approaches the active zone, the capacitance value will change. As the capacitance varies, the frequency of the oscillator circuit changes. This frequency change is sent to another circuit called a detector, where it will transform the frequency variation caused by the capacitance variation into a voltage signal. The trigger schmitt circuit, in turn, has the purpose of transforming the voltage signal into a square wave. Last but not least, the switching circuit. The switching circuit is where the square wave will be excited and transferred to the external circuits.

Capacitive sensors can be used in the most varied types of processes, being able to monitor and detect the presence of dust, concentration of gases, objects and products of an organic and mineral nature, metals and non-metals, solids and liquids, even when fully submerged in the product.



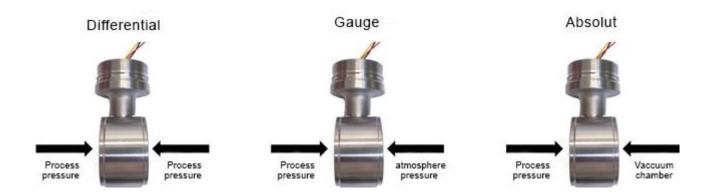
2. TYPES OF TRANSMITTERS

The **FOSTEN SERIES F500** intelligent pressure transmitter can have three models: Differential, Gauge and Absolute. The variation may occur depending on the need for the application / industrial process to be controlled. Each type will therefore imply a different mechanical joint precisely due to the operating principles.

In a Differential transmitter, the pressure on the process is applied to both the high and the low sides of the capacitive sensor.

In a Gauge transmitter, the pressure on the process is applied to the high side of the sensor, while the low side is open to the atmosphere.

In an Absolute transmitter, the pressure on the process is applied on the high side of the sensor, while on the low side there is a vacuum chamber.



3. MAIN APPLICATIONS

- Sugar and Alcohol
- Fertilizers
- Chemistry
- Food and Beverages
- Petrochemical
- Pharmaceutical
- Energy
- Plastic
- Among others

4. TECHNICAL CHARACTERISTICS

The following are the main technical characteristics of the F500 intelligent pressure transmitter.

Accuracy	± 0,075%
Exit sign	4 a 20 mA
Communication protocol	Hart
Feeding	9 to 32 Vcc, without polarity – 12 mA
Operating temperature	-20 °C to 100 °C
Storage Temperature	-20 °C to 100 °C
Environment temperature	-20 °C to 85 °C
Types of exit	Linear and square root
Degree of protection	IP66
Response Time	50 ms
Rangeability	80:1
Thermal stability	± 0,15% URL, 5 years
Display	Backlight type
Approximate weight with support	3,5 kg for differential and gauge version



6. FIXING SUPPORT

The F500 intelligent pressure transmitter, differential, gauge and absolute models, come with a fixing support suitable for assembling on 2" diameter pipes. Available in two versions: carbon steel and stainless steel (these options are to be defined and chosen in the sales code).



7. F500SR REMOTE SEAL

The F500SR remote seal allows the pressure transmitter to perform the measurement process remotely, efficiently and accurately. It is used whenever the transmitter diaphragm cannot, due to some technical restriction, be used directly in contact with the process fluid. It can be built in three different ways (flanged, threaded or sanitary) the F500SR meets practically 100% of the applications that require remote measurements in different types of industrial applications.



Type of remote seal	Flanged, Threaded, Sanitary
Diaphragm blade	Stainless Steel, Hastelloy, Moxnel 400, Tantalum, Stainless Steel with Hallar or Tefzel coating
Filling fluid	Silicone DC704, Silicone DC200, Neobee

Below we have the sale codes for purchasing and throughout this instructional and operational manual, more specifically in the spares section, the sale codes for purchasing spare parts.

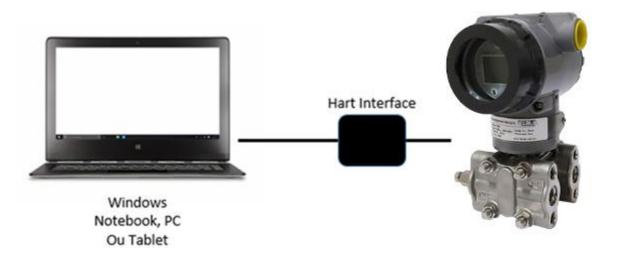
PRODUCT										
F500-SRF	·Rem	ote Seal	- Fland	ied Typ	ē					
		ESS CO	-		Ĭ					
·	1		0 # (AN		5)		А	· 4" 15)#(AN	SI B16.5)
·	2		0 # (AN		-		В			SI B16.5)
·	3		0 # (AN		-		C			ISI B16.5)
	4		0 # (AN		-		D		5 # (7.14 5 PN 10/-	
	5	: 2" 300					E		PN 10/-	
•	6	: 2" 600	-		-		F		PN 10/-	
•	7		-		-		G		PN 10/-	
•			0 # (AN						0 PN 10	
	8		0 # (AN		-		H			010
	9	: 3" 600					Z	: Spec	a	
•	•		NSION		H I					
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	•	1	: 50 m							
	•	2	: 100 n							
	•	3	: 150 n							
•	•	4	: 200 n							
•			: Spec							
•			FLAN		TERIAL					
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			•	FLAN			M MAT	ERIAL		
		•		1	: Stain	less Ste	el			
				2	: Haste					
				3	: Mone	el 400				
•	•	•	•	4	: Tanta	alum				
				5	: Halla	r Coatin	g			
				6	: Tefze	el Coatir	ng			
					FLAN	GE FILI	ING O	L		
					1	: Silico	ne DC7	04		
					2	: Silico	ne DC2	00		
					3	: Neob	ee			
					Z	: Spec	ial			
						CAPIL	LARY L	ENGH	Г	
						1	: 1 me	er	8	: 8 meters
						2	: 2 me	ers	9	: 9 meters
						3	: 3 me	ers	А	: 10 meters
						4	: 4 me	ers	В	: 11 meters
						5	: 5 me	ers	С	: 12 meters
						6	: 6 me		Z	: Special
						7	: 7 me			
									DCESS	
							0	: No		
	•			•	•		1	: Yes		
	•	•	•	•	•	•			ļ	1
F500-SRF	7	0	1		1	2	0			
					•	_				

PRODUCT														
F500-SRR	: Rem	ote Sea	al - Thre	eaded T	уре									
	PROC	CESS C	ONNE	CTION										
	1	: 1/4 N	IPT											
	2	: 3/8 N	IPT											
	3	: 1/2 N	1/2 NPT											
	4	: 3/4 N	IPT											
	5	: 1 NP	Τ											
	6	: 1 1/2	NPT											
		FLAN	GE MA	TERIA	L									
	•	1	: Stair	nless St	eel									
			FLAN	IGE DIA	PHRA	GM MA	TERIAL							
			1	: Stair	nless St	eel								
			2	: Hast	elloy									
•	•	•	3	: Mon	el 400									
	·		4	: Tant										
	·			FLAN	GE FIL									
				1		one DC								
	•	•	•	2		one DC	200							
	•	•	•	3	: Neol									
	•	•	•	Z	: Spec									
•	·	·		·			LENGHT							
•	•			•	1	: 1 me		8	: 8 meters					
	•				2	: 2 me		9	: 9 meters					
	•	•	•	•	3	: 3 me		A	: 10 meters					
	•	•	•	•	4	: 4 me		В	: 11 meters					
	•	•	•	•	5	: 5 me		C	: 12 meters					
	•			•	6 : 6 meters Z : Special									
	•	•	•	•	7 : 7 meters									
	·	•	•	·										
	•	•	•	·	•	0	: No							
•	•	•				1	: Yes							
F500-SRR	1	1	1	1	2	0								

F500-SRS	· R	emote S	Seal - Sa	anitary T	vpe					
				ECTION						
				1/2" Wit				: IDF 2" Wi	th	
	1	Exter	nsion				В	Extension		
			Clamp 2	" With		: IDF 2" Wi	thout			
•	2			" \\/:+h ou	C	Extension : IDF 3" Wi	4h			
	3			" Withou	D	Extension	un			
•			Clamp 3	" With				: IDF 3" Without		
	4	Exter	sion				E	Extension		
	_		: Tri-Clamp 3" Without Extension					: RJT 2" W	ith	
	5			Without			F	Extension : RJT 2" W	ithout	
	6			vvitriout			G	Extension	iinoui	
·		Extor						: RJT 3" W	ith	
	7	: SMS	5 2" Witl	h Extens	ion		н	Extension		
				– .				: RJT 3" W	ithout	
•	8			hout Exte				Extension		
	9	: SMS	5 3" Witl	h Extens	ion		Z	: Special		
	A	: SMS	5 3" Witl	hout Exte	ension					
		FLAN	IGE MA	TERIAL						
-		1		nless Ste						
•	•	1								
•	•	•	FLAN			M MATERIAL				
			1	: Stain	less Ste	el				
			. 2 : Hastelloy							
			3	: Mone						
			4	: Tanta						
•	•	•	4							
•		•	•	FLAN		ING OIL				
•			•	1	: Silice	one DC704				
				2	: Silice	one DC200				
				3	: Neol	bee				
		-	-	Z	: Spec					
•	•	•	•	2						
•		•	•	·	CAPI	LARY LENGHT			: 8	
		-	_		1	: 1 meter		8	meters	
•			•	•					: 9	
					2	: 2 meters		9	meter	
					~	· 0		•	: 10	
			•	•	3	: 3 meters		A	meter : 11	
-	_				4	: 4 meters		В	meter	
					5	: 5 meters		С		
•	•	•	•	•	5	. 5 meters			•	
					6	: 6 meters		Z	Speci	
					7	: 7 meters				
		•	•	•		VACCUM PROCESS				
		•	·	•	•					
		•	•	•	•	0	: No			
						1	: Yes	5		
-	-									
500-SRS	1	1	1	1	2	0				

8. CONFIGURATION VIA SOFTWARE

The F500 line transmitters are configured using the Hart Config Tool software, which is free and available on the website. A Hart communication interface of any model/manufacturer is required.



	HART Config Tool	_ X
Informations		
Transmitter informations	Message:	
Poll address	Sensor informations:	
Information	PV Snsr Unit: degC	
A H T C C	PV USL: 850.000	
More Information	PV LSL: -200.000	0
	PV Min span: 1.000	
	PV Snsr s/n: 1677721	5
Configuration	Transmitter informations:	
Monitor	PV Units: degC	
Transmitter Trim	PV URV: 100.000	
Maintenance	PV LRV: 0.000	
	PV Damp: 0.000	
User Trim	PV Xfer fnctn: Linear	
Manufacturer Trim		
Advanced Function		
	💌 👗 COM Port:	COM12 - File Operate Polling

8.1. CONNECTING THE INSTRUMENT

Make sure the instrument and the Hart interface are turned on.

Access the Hart Config Tool software and click on the "Polling 0" button in the lower right corner.



By choosing the "Information" button, all the information contained in the instrument will appear.

Information			
Configuration			
Monitor	Message:		
Transmitter Adjustment	Sensor Information:		
Transmitter Test	PV (Process Variable) Sensor Unit:	me H20	
Maintenance	PV NSL (Upper Sensor Limit):	25538.691	
User Calibration	PV LSL (Lower Sensor Limit):	-25538.691	
Manufacturer Calibration	PV Min Span:	0.001	
Advanced Functions	PV Sensor S/N:	66051	
	Transmitter Information:		
	PV Unit:	maH20	
	PV URV (Upper Range Value):	25000.000	
	PV LEV (Lower Range Value):	0.000	
	PV Damp:	0.000	
	Xfer Fnctn(Transfer Function):	Linear	
	💌 👗 COME	COM1 - File Polling	Polling 0

8.2 CALIBRATION

To adjust the calibration range, just choose the "Configuration" button. In the "Range" sub-option, the minimum and maximum ranges will be displayed ("Sensor Information" box) and then the working range in which the instrument is configured ("Output Range" box).

To change this range and adjust it, just select the LRV (low pressure or minimum value) and the URV boxes (high pressure or maximum value). Making change, click on the "Write" button to confirm and save.

Information	
Configuration	
Range	Sensor Information: PV Sensor S/N: 66051
Zero/Span Setup	PV USL: 25538.691 PV LSL: -25538.691
@ Dutput	PV Sensor Unit: mmH20 PV Min Span: 0.001
Pault Protection	
Monitor	Transmitter Output Range: PV Unit: mmM20
Transmitter Adjustment	PV UEV: 25000.000
Transmitter Test	PV LRV: 0.000
Maintenance	
User Calibration	
Manufacturer Calibration	Read
Advanced Functions	
	▼ X COM: COM1 ▼ File Polling Polling 0

8.3. CURRENT TRIM

To perform the current trim, choose the "Configuration" button and the "Zero / Span Setup" sub-option.

On the next screen that will open, choose the "Zero: 4mA" button to adjust the current value to 4 mA, taking the minimum value (LRV) as a reference. Choose the "Span: 4mA" button to adjust the current value to 20 mA, having as reference the maximum value (URV).

Information	
Configuration	TV Bange
@Range	PV Unit: mmM20
Zero/Span Setup	PV URV: 25000.000 PV LRV: 0.000
🙆 Output	Zero Setup:
Fault Frotection	Set the current value of FV as LEV, i.e., Zero, but the Span will not be changed. Zero: 4mA
Monitor	
Transmitter Adjustment	Span Setup:
Transmitter Test	Set the current value of PV as UKV, but the Zero will not be changed.
Maintenance	Span: 20mA
User Calibration	
Manufacturer Calibration	
Advanced Functions	
	💌 🌋 COM: COM1 💌 File Polling Polling 0

8.4. DAMP, LINEAR OUTPUT OR SQUARE ROOT AND USER UNIT

To adjust options such as Damp, output to linear type or square root extraction, as well as choose the units to be shown on the display, choose the "Configuration" button and then the sub-option: "Output".

On the next screen that opens, choose in the "Output Characteristics" box the options for Damp, linear function or square root.

In the table below, select the desired option for Display 1 and Display 2.

Information	
Configuration	Output Characteristics:
Range	PV Damp: 0.000 s
Zero/Span Setup	Xfer Fnctn: Linear
Output	SQRT Mode: Current
Fult Protection	Display 1:
	Var. Type: Percent
Monitor	Decimal Flaces: 0
Transmitter Adjustment	Display 2:
Transmitter Test	Var. Type: PV
Maintenance	Decimal Places: 0
User Calibration	
Manufacturer Calibration	Read
Advanced Functions	
	💌 🌋 COM: COM1 💌 File Polling Polling 0

8.5. INCLUDING USER UNIT

To include a user unit (drive), choose the "Configuration" button and the sub-option: "Range". In the box "Transmitter Output Range", option "PV Unit", select the desired unit.

If the unit to be chosen is not listed for choice, it will be necessary to make a simple adjustment as described below:

a) In the "PV Unit" select "Special". At this time, the calibration value will automatically be converted to kpa.

Information					
Configuration					
 Range Zero/Span Setup 	Sensor Information: FV Sensor S/N:	66051			
Output	PV USL: 25538.6 PV Sensor Unit: mmH20		PV LSL: -25538.69		
Fault Protection					
	-Transmitter Output Range: -				
Monitor	PV Unit:	nmH20 Pa kPa	•		
Transmitter Adjustment	PV URV	T			
Transmitter Test	PV LEV	in4H20 nn4H20 nH20			
Maintenance		nHg £14H20			
User Calibration		n nn	=		
Manufacturer Calibration	Read	cm feet inch			
Advanced Functions		degC Special	F		
	- 1	COM: COM1	▼ File	Polling	Polling 0

b) Go to the last button "Advanced Functions" and choose the sub-option: "Additional Functions" as shown on the following screen.

Information	Small Signal Cutoff:	Temp. Value Cali.:		
Configuration	The value range is 0 \sim 3.	This calibration is used to adjust the		
Monitor	Select: 08	reading of the sensor temperature value to match the actual temperature value. This calibration does not		
Transmitter Adjustment	Mode: Zero pressure 💌	affect the temperature compensation of the actual sensor.		
Transmitter Test	Setting Value: 1.000 %	Display Temp. : Not disp 💌		
Maintenance	Trite	Actual Temp. : degC		
User Calibration	Measured Medium Density:	Write		
Manufacturer Calibration	The density setting of the measured medium is only valid for the unit m, om, mm, inch and feet	-Save Data		
Advanced Functions	cm, mm, inch and reet.	Save Date.		
Sensor Configuration	Medium Density: 1.000 g/cm3	Data will be saved to PC.		
Additional Functions	User Unit:	Save Data		
	Unit: SPEC	Data will be written to field.		
	Coefficient: 1.000 * kPa Write	Backup Data		
	▼ X com	COM1 - File Polling Polling		

In the "User Unit" box, indicated by the arrow in the previous figure, write the user unit you want to use. Enter the value of the "Coefficient", which must always be the maximum value of the calibration range divided by the maximum value of the user unit range.

Example:

The instrument works from 0 to 25000 mmH2O, which transformed into Kpa will be from 0 to 244727 kpa. The user unit you want to work with is from 0 to 200 m3/h.

So, the value of the "Coefficient" will be 244727 ÷ 200, which will result in 1223.63 (or 1224 rounded off to the decimal point).



From this setting, the user unit m3/h, which did not exist in the selection list, starts to appear on the display of the instrument.

Information	Small Signal Cutoff:	Temp. Value Cali :
Configuration	The value range is 0 \sim 3.	This calibration is used to adjust the
Monitor	Select: ON 💌	reading of the sensor temperature value to match the actual temperature value. This calibration does not
Transmitter Adjustment	Mode: Zero pressure 💌	affect the temperature compensation of the actual sensor
Transmitter Test	Setting Value: 1.000 %	Display Temp. : Not disp 💌
Maintenance	Trite	Actual Temp.: degC
User Calibration	Heasured Hedium Density:	Write
Manufacturer Calibration	The density setting of the measured medium is only valid for the unit m,	Save Data
Advanced Functions	cm, mm, inch and feet.	Save Data.
Sensor Configuration	Medium Density: [1.000 g/cm3 Write	Data will be saved to PC.
Additional Functions	Uxer Unit:	Save Data
	Unit: n3/h	Data will be written to field
-	Coefficient: 1.224 • kPa	Backup Data
	▼ 2 cost	COM1 - File Polling Polling 0

8.6. WRITING AND ALARM PROTECTION

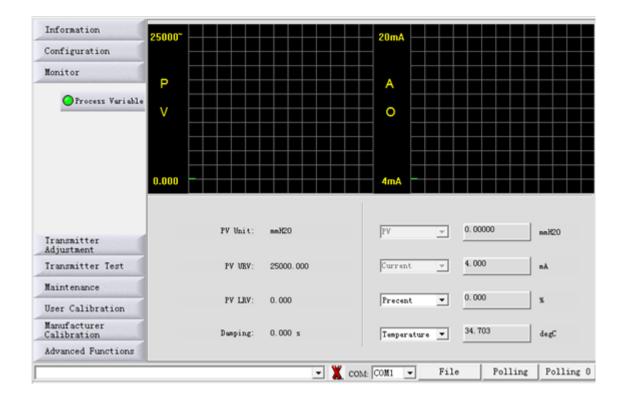
To enable the writing protection, preventing allowed changes to the configuration already made and saved in the memory of the instrument, simply choose the "Configuration" button and the sub-option: "Fault Protection".

On this same screen, there is also the possibility of setting the alarm, in which you can select an option for very low or very high current to send an alarm signal.

Information	
Configuration	
@Range	Write Protection:
Zero/Span Setup	Setting: OFF
Output	
Fault Protection	AD (Analog Output) Alarm:
Monitor	Setting: Alarm Low(3.8mA) 💌
Transmitter Adjustment	
Transmitter Test	
Maintenance	
User Calibration	Read
Manufacturer Calibration	
Advanced Functions	
	▼ X COM: COM1 ▼ File Polling Polling 0

8.7. MONITORING VARIABLES

Choose the "Monitor" button and the "Process Variable" sub-option. A screen will be available in which the variables can be selected to be monitored and displayed in a graph.



8.8. CURRENT TRIM AND LOOP

Choose the "Transmitter Adjustment" button and the "D/A Adjustment" sub-option to perform the current trim (4 to 20 mA), using a multimeter as a reference. To perform a simulation and test with various current values, see the options in the "Current Loop Test" table.

Information	
Configuration	Current Loop Calibration:
Monitor	Vse standard apperemeter
Transmitter Adjustment	\subset Use a standard voltmeter with a resistor of 250 ohm
OD/A Adjustment	○ Use a standard voltmeter with a resistor of ohm
Two-Point Adjustment	Theoretical Loop Current: 4 =A Actual Loop Current: 4.000 mA
Zero Adjustment	Start Cali. Send Exit
Cuncellation	Current Loop Text: G 3.8mA C 16.0mA
Transmitter Test	C 4.0nA C 20.0nA
Maintenance	○ 8.0mA ○ 22.8mA ○ 12.0mA ○ 0thers 3.8 mA
User Calibration	
	Start Test Send Exit
Manufacturer Calibration	

8.9. LOWER TRIM AND UPPER TRIM

To perform the pressure trims, choose the "Transmitter Adjustment" button and the sub-option: "Two-Point Adjustment".

Information		
Configuration	Two-Point Adjustment:	
Monitor	Options:	
Transmitter Adjustment	Adjusted Value: mmH20	
O/A Adjustment	Write	
Two-Point Adjustment	Readout:	
Zero Adjustment	URV Adjustment: LEV Adjustment:	
Cancellation		
	Value: Value:	
Transmitter Test	anH20 anH20	
Maintenance	aaH20 aaH20	
User Calibration	Read	
Manufacturer Calibration		
Advanced Functions		

In the "Options" selection box, you can choose whether you want to make a lower trim or a higher trim.

-Two-Point Adjustment:			
Options: Adjusted Value:	URV Adjust		
	Write		
-Readout:			
URV Adjustment:		LRV Adjustment:	
	1		1
Value:		Value:	
	mmH2O		mmH20
	mmH2O		mmH20
	Rea	a	

8.10. ZERO TRIM

To perform the zero trim, choose the "Transmitter Adjustment" button and the sub-option: "Zero Adjustment".

Information	
Configuration	
Monitor	
Transmitter Adjustment	Zero Adjustment:
O/A Adjustment	Set the current FV to Zero.
 Two-Point Adjustment 	Adjust Zero
Zero Adjustment	
Cancellation	Arbitrary PV Adjustment:
	Adjust: mmH20
Transmitter Test	
Maintenance	Read Write
User Calibration	
Manufacturer Calibration	
Advanced Functions	
	▼ X COM: COM1 ▼ File Polling Polling

9. SPARE PARTS

The **F500** instrument line offers a wide variety of single pieces, also called spare parts. Practically all items can be purchased separately, through the list of codes below.

PRODUCT			
500-0010	Blind Cove	er - Univer	sal
	MATERIAL	_	
	А	: Aluminu	m
		PAINTIN	G
		1	: Standard
		Z	: SPECIAL (see notes)
<u>.</u>	•	•	
500-0010	Α	1	

PRODUCT			
500-0012	: Cover wit	h Viewfind	er - Universal
	MATERIAL		
	А	: Aluminu	IM
		PAINTIN	G
		1	: Standard
		Z	: Special (See Notes)
500-0012	Α	1	

PRODUCT			
500-0016	: Housing with	Hart pump fo	or pressure transmitter (without covers)
	MATERIAL		
	А	: Aluminum	
		PAINTING	
		1	: Standard
		Z	: Special (See Notes)
		•	
500-0016	Α	1	

PRODUCT	
500-0020	: Hart pump for pressure transmitter
1	

PRODUCT	
500-0024	: U-type mounting support
	MATERIAL
·	1 : Carbon steel
	2 : Stainless steel
500-0024	1

PRODUCT	
500-0028	: stainless steel differential flange with bleed

PRODUCT	
500-0030	: stainless steel gauge flange

PRODUCT	
500-0032	: nut / stainless steel adapter with screw

PRODUCT	
500-0036	: stainless steel bleed for flange

PRODUCT	
500-0038	: stainless steel bolt for flange with screw

PRODUCT	
500-0040	: stainless steel nut screw

PRODUCT	
500-0060	: Hart main board for pressure transmitter.

PRODUCT	
500-0014	: sealing ring for blind cover / with viewfinder – Buna N 7750

PRODUCT	
500-0016	: sealing ring for the electrical connection plug – Buna N 2117

PRODUCT

500-0019 : sealing ring for the differential sensor / Gauge – Buna N 2136

PRODUCT	
500-0015	: sealing ring for the adapter/ nut – Buna 2116

PRODUCT	
500-000D	: Capacitive sensor for differential pressure transmitter
	RANGE
	0 : -100 a 100 mmH2O
	1 : -500 a 500 mmH2O
	2 : -5000 a 5000 mmH2O
	3 : -25000 a 25000 mmH2O
	4 : -25 a 25 Kgf / cm ²
	5 :-68 a 68 Kgf / cm ²
	6 : -160 a 160 Kgf / cm ²
	DIAPHRAGM MATERIAL AND FILLING FLUID
	. 1 : Stainless steel - silicone oil
	MATERIAL IN THE BODY OF THE SENSOR
	I : Stainless steel
<u>.</u>	
500-000D	3 1 I

PRODUCT		
500-000M	: Capacitive sensor for gauge pressure transmitter	
	RANGE	
	0 : 0 a 100 mmH2O	
	1 : 0 a 500 mmH2O	
	2 : 0 a 5000 mmH2O	
	3 : 0 a 25000 mmH2O	
	4 : 0 a 25 Kgf / cm ²	
	5 : 0 a 68 Kgf / cm ²	
	6 : 0 a 160 Kgf / cm²	
	DIAPHRAGM MATERIAL AND FILLING FLUID	
	. 1 : Stainless steel - silicone oil	
	MATERIAL IN THE BODY OF THE SENSOR	
	I : Stainless steel	
500-000M	3 1 I	

PRODUCT		
500-000A	: Capacit	tive sensor for absolute pressure transmitter
	RANGE	
	1	: 0 a 500 mmH2O
	2	: 0 a 5000 mmH2O
	3	: 0 a 25000 mmH2O
	4	: 0 a 25 Kgf / cm ²
	5	: 0 a 68 Kgf / cm ²
	6	: 0 a 160 Kgf / cm²
		DIAPHRAGM MATERIAL AND FILLING FLUID
		1 : Stainless steel - silicone oil
		MATERIAL IN THE BODY OF THE SENSOR
		. I : Stainless steel
500-000A	3	1 I

10. WARRANTY

The **F500** Pressure Transmitter has a 12 month warranty.

Such warranty becomes invalid once the following situations are detected:

- Incorrect installation of the instrument ٠
- Use in inappropriate applications •

• Mechanical damage by impacts Electrical damage as a result of damage from other instruments in the industrial plant.

FOSTER AUTOMATION

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