

# CS51 Series of Intelligent Pressure Transducers

The Feiyan **CS51** series of pressure transducers are designed for environmentally demanding applications requiring the superior performance of a micro processor based designed, coupled with a digital data communication capability.

## CS51

- High Accuracy
- Gage pressure: From 0-1kPa to 0-3.5MPa
  - Absolute pressure: 0-10kPa~120MPa
- Gage pressure: From 0-1kPa to 3.5MPa
  - Negative pressure: -100kPa~350kPa

### Features:

- Compensation calculated for linearity and temperature drift.
- LED display.
- Stainless steel construction for corrosion protection
- Anti-shock protection
- Reverse polarity and over-voltage protection
- Mechanical shock (6 Hz, 1/2 sine): (V.H.4)
- Operating Temperature: -30°C to +70°C
- Storage Temperature: -30°C to +85°C

### Applications:

- Water supply measurement equipment
- Pipe pressure equipment
- Pump pressure control equipment
- Tank liquid level determination

### Specifications:

- Supply voltage: 24 VDC
- Over voltage protection: 30VDC
- Reverse voltage protection: 9VDC
- Random vibration (50-2000 Hz): 0.02%FSO gm



#### Zibo Feiyan Xianxing Control Technology Co., LTD

Shandong Kehui Industrial Park  
Yifan Road  
Zhangdian District, Zibo  
Shandong Province 255087, P.R.C.  
Telephone: 0086-533- 3818773  
Fax: 0086-533-3812774  
[sale@advsensors.com](mailto:sale@advsensors.com)  
[www.advsensors.com](http://www.advsensors.com)

#### T.I. Chen Associates

1101 N. 5<sup>th</sup> Street  
Tacoma, WA 98403-1610  
USA  
Telephone: 253.678.2661  
FAX: 206.350.6482  
[tim@tichenassociates.com](mailto:tim@tichenassociates.com)  
[www.tichenassociates.com](http://www.tichenassociates.com)

## Part Number Definition C51:

CS51 - 

<i>a</i>
----------

<i>b</i>
----------

<i>c</i>
----------

<i>d</i>
----------

<i>e</i>
----------

<i>e</i>
----------

<i>f</i>
----------

<i>f</i>
----------

<i>g</i>
----------

<i>g</i>
----------

<i>g</i>
----------

	Code	Range
<i>a</i>	A	0 - 1kPa (.15psi) to 0 - 35kPa (5.08psi)
	B	0 - 35kPa (5.08psi) to 0 - 3.5MPa (507.5psi)
	C	0 - 3.5MPa (507.5psi) to 0 - 35MPa (5075psi)
	D	0 - 35MPa (5075psi) to 0 - 120MPa (17,401psi)

	Code	Accuracy Class
<i>b</i>	I	0.1%
	II	0.3%
	III	0.5%

	Code	Pressure Connection
<i>c</i>	R	Standard M20x1.5 outer thread
	P	Flatten film
	R1	Standard M20x1.5 inside thread
	O	Optional, customer specified

	Code	Output Signal
<i>d</i>	E	4 to 20 mA DC
	K3	1 to 5 VDC
	K5	RS-232 Isolated connector, 1200 to 9600 bps
	K6	2 digit control or single relay output
	K7	3 digit control or single relay output
	K8	Multi digit control or single relay output
	K6	

	Code	Electrical Power
<i>e</i>		Standard, 24VDC
	N1	Optional – 220V switching power supply

	Code	Options
<i>g</i>	A	Absolute pressure measuring
	F	Load pressure measuring
	S	Hest sink for high temperature applications
	S5	Pressure buffer connector M20x1.5
	Y	Custom design, customer specified option(s)

### Zibo Feiyan Xianxing Control Technology Co., LTD

Shandong Kehui Industrial Park  
 Yifan Road  
 Zhangdian District, Zibo  
 Shandong Province 255087, P.R.C.  
 Telephone: 0086-533- 3818773  
 Fax: 0086-533-3812774  
[sale@advensors.com](mailto:sale@advensors.com)  
[www.advensors.com](http://www.advensors.com)

### T.I. Chen Associates

1101 N. 5<sup>th</sup> Street  
 Tacoma, WA 98403-1610  
 USA  
 Telephone: 253.678.2661  
 FAX: 206.350.6482  
[tim@tichenassociates.com](mailto:tim@tichenassociates.com)  
[www.tichenassociates.com](http://www.tichenassociates.com)