Signal processing

SCAIME can offer various solutions for conditioning, display and transmission of the measurement. Our electronics include functions covering a wide range of applications:

- Process control
- Measurement acquisition
- Safety threshold management

For a use in automation architectures, we can also offer:

• Standard interfaces with the main automated systems (Profibus-DP, Modbus-RTU, CANopen®, Profinet, Modbus-TCP, Ethernet/IP, Ethercat)

••••• ELECTRONICS •••• ••••



Model	СРЈ	eNod4-T	PAX	GM80 PA-TG	SDI-718 B	IPE50 P
Туре	Analog transmitter	Digital transmitter	Measurer	ment display	Data acquisition system	Weighing indicator
Signal Input	mV/V, potentiometer	mV/V	mV/V	mV/V, 4-20 mA, ±5 V	mV/V, 4-20 mA, ±5 V	mV/V
Accuracy	0.05 %	0.005 %	0.02 %	0.1 %	0.1 %	0.01 %
Measurement rate (meas./s.)	-	1 200	20	1 000	1 000	200
Display	-	Option LCD tactile couleur	LED 14 mm	LCD 9 mm	-	LED 18 mm
Digital Input (I) / Output (O) TOR	-/0 20	0/• 4 /40	● / O 2 / 4 O	• / - 2	•/- 1	2 E / 2 O
Analog output	•	0	0	-	-	•
Communication	-	Modbus Profibus-DP CANopen® Ethernet/IP Profinet, Ethercat	Modbus Profibus-DP	-	Ethernet	Modbus Profibus-DP

On-board applications

- Force monitoring on chassis
- On-board weighing on trailer
- Tilting prevention
- Overload prevention





scaime

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to the axle

MT-STRAIN-E-0917.indd





Strain measurement Extensometers, Electronics, Accessories







Your machines and structures monitored...

Scaime has developed a range of extensometers using an innovative mechanical principle. Easy to use, accurate and free of any shift, they are meant to simplify load measurement by monitoring directly the strain on the structure.



For all your applications ...

We provide all elements required to process or monitor either slow or fast signals.

- A new generation of extensometers suitable for harshest environments
- A comprehensive range of electronics allowing measurement acquisition and transmission
- Assistance from the definition of your specification to the design and commissioning of the measurement system

EPSI-AX extensometers fixed on each silo foot

Silo level measurement

Strain sensing easily turn your existing silo into a scale. The extensometers measure the deformation of the silo structure, proportional to the product weight inside the silo.

Quickly and easily installed on the silo structure without modification, this cost-effective measuring method is an excellent alternative to traditional level sensing.

Designed for industrial environments...



- > Miniature versions
- > Stainless steel and sealed versions
- > No mechanical adjustment needed, no modification to the structure
- > Easy mounting by bonding or screwing
- > High sensitivity and wide measuring range
- > Quick response time
- > High or low level analog output

> Versions with in-built electronics for digitally adjustable offset, span and temperature compensation



EXTENSOMETERS / ADJUSTMENT BOXES



Model	Epsimetal mV	Epsi-AX mV	
Туре	Miniature extensometer	Stainless steel, sealed extensometer	
Capacity	±500 µm/m	±500 µm/m	
Measurement mode	Tension or compression	Tension or compression	
Output	4.5 mV/V	1 mV/V	
Resolution	lµm∕m	lµm/m	
Construction	Aluminum	Stainless steel	
Protection level	IP54	IP68	

ACCESSORIES



Model	Flat mounting platesto be bonded	Mounting template
For extensometer	Epsimetal	Epsimetal

Structures monitoring

- Deflection measurement under load
- Fatigue cycles monitoring
- Measuring strains in the structure frames
- Analysis of structures behavior, characterization of mechanical elements





Silo level measurer



	Epsi-AX V	Epsilog-VX	
er	Stainless steel, sealed extensometer	Connection box to PC/USB	
	±500 µm/m	for EPSI-AX V	
'n	Tension or compression	Digital Offset/Span adjustmen with included PC software	
	0-5 V ou 0-20 mA		
	lµm∕m		
	Stainless steel	ABS	
	IP68	IP54	





Mounting plates to be welded

EPSI-AX

