Vibration sensors and accessories



IKM vibration sensors and accessories in all ranges



A collaborating partner

IKM Instrutek is a collaborating partner that focuses on quality, product range and expertise. IKM Instrutek supplies products and services to the shipping and offshore sectors, industry and the public sector, as well as other businesses with varying metrological needs.

Our expertise ranges from measuring instruments, maritime navigation and communication, to process instrumentation, condition monitoring, calibration and special request items.

The company was established in 1985. Its head office is in Larvik, with branch offices in Stavanger, Bergen and Ålesund.

The company has around 60 employees and a budgeted turnover of over NOK 200 million. The company is part of the IKM group with around 2,450 employees and an annual turnover of approx. NOK 4.2 billion

A part of the IKM Group

IKM Instrutek is part of the IKM Group a multidicipline sub supplier focusing primarily on the oil and gas industry. The IKM Group conducts business within the following five areas: Electrical/Instrument/ Process, Subsea/Completion/Commissioning, Engineering/Operations, Fabrication/Inspection and Rig/Downhole Services.

Focus on Growth is always the goal, and IKM's ambition is that even the most demanding customer shall choose IKM as their preferred business partner. All IKM companies are ISO-certified, and through internal revisions, audits, and continuous monitoring. IKM Corporate Group ensures that it meets and exceeds the needs of its customers and employees with respect to quality, health, safety and the enviroment.

Vibration sensors and accessories

High quality vibration sensors and accessories with competitive prices. IKM Instrutek deliver IKM vibration sensors and accessorizes in all ranges.

Please note that this is only a small selection of the sensors we deliver. Please contact us if you do not find what you are looking for.



Products:

- AC Vibration sensors (with different sensitivities)
- AC Velocity sensors (with different sensitivities)
- Sensors for high temperatures
- 4-20mA vibration sensors and transmitters
- Cables
- Magnets and studs
- Switch & Connection Enclosures
- Junction Boxes
- Installation Products



VS-100 Accelerometer

AC acceleration output via 2 Pin MS Connector

Key Features • Most common seller

Most common seller
 For use with data collector

Customisable features

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical



Tech	nical Performance		Mechanical		
Mount	ed Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel	
Sensit	ivity	see: 'How To Order' table ± 10%	Sensing Element/Construction	PZT/Compression	
		Nominal 80Hz at 22°C	Mounting Torque	8Nm	
Frequ	ency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%	Weight	125gms (nominal)	
		1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%	Screened Cable Assembly	see: www.IKMinstrutek.no for options	
		0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB	Connector	VS-AA004 - non-booted	
Isolati	on	Base isolated		VS-AA053 or HS-0054 - booted	
Range	2	see: 'How To Order' table	Mounting Threads	see: 'How To Order' table	
Transv	verse Sensitivity	Less than 5%			

Electrical			
Electrical Noise		0.1mg m	ıax
Current Range		0.5mA to 8	mΑ
Bias Voltage		10 - 12 Volts	DC
Settling Time		2 secor	nds
Output Impedance		200 Ohms m	ax.
Case Isolation	>108 (Ohms at 500 Vo	olts

max	Operating Temperature
3mA	Sealing
DC	Maximum Shock
onds	EMC
nax.	

Environmental

-55 to 140°C IP68 5000g EN61326-1:2013

Connection Details

Typical Frequency Response (at 100mV/g)

st approximately a second seco

Applications

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body)

Range



How To Order

IKM

I.K.W

Instrutek AS





We reserve the right to alter the specification of this product without prior notice TS525.1E

VS-100S Accelerometer

AC acceleration output via 2 Pin MS Connector

Key Features

For use with data collector
Side entry for easy access
Customisable features

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical







Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Compression
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt provided	see: 'How To Order' table x 30mm long
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%	Weight	185gms (nominal)
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB	Screened Cable Assembly	see: www.IKMinstrutek.no for options
Isolation	Base isolated	Connector	VS-AA004 - non-booted
Range	see: 'How To Order' table		VS-AA053 or VS-0054 - booted
Transverse Sensitivity	Less than 5%	Mounting Threads	see: 'How To Order' table

Electrical	
Electrical Noise	0.1mg max
Current Range	0.5mA to 8mA
Bias Voltage	10 - 12 Volts DC
Settling Time	2 seconds
Output Impedance	200 Ohms max.
Case Isolation	>10 ⁸ Ohms at 500 Volts

2 seconds EMC 200 Ohms max. mms at 500 Volts

Typical Frequency Response (at 100mV/g)

IKM

Instrutek AS

Sensitivity Change %	50% 40% 20% 10% -10% -20% -30% -40% -50%			1			10			100		1,0			, o		
								Ere									

Operating Temperature Range Sealing Maximum Shock

Environmental

Applications

Process Equipment

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling,

Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.) -55 to 140°C IP68 5000g EN61326-1:2013

How To Order

I.K.W





We reserve the right to alter the specification of this product without prior notice TS534.1A

VS-100S Accelerometer AC acceleration output via Silicon Cable

Key Features

· For use with data collector Side entry for easy access Waterproof

Industries

How To Order

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical



Screen to case +ve Power (White)

Connection Details

No Connection (Red) V (Black)

Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Compression
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	2Hz (120cpm) to 10kHz (600kcpm) ± 5%	Mounting Bolt provided	see: 'How To Order' table x 30mm long
	1.5Hz (90cpm) to 12kHz (720kcpm) ± 10%	Weight	185gms (nominal)
	0.8Hz (48cpm) to 15kHz (900kcpm) ± 3dB	Maximum Cable Length	1000 metres
Isolation	Base isolated	Standard Cable Length	5 metres
Range	see: 'How To Order' table	Screened Cable	Silicon - length to be specified with order
Transverse Sensitivity	Less than 5%	Mounting Threads	see: 'How To Order' table
		Submersible Depth	100 metres max (10 bar)

Sealing

EMC

Electrical		
Electrical Noise		0.1mg max
Current Range		0.5mA to 8mA
Bias Voltage		10 - 12 Volts DC
Settling Time		2 seconds
Output Impedance		200 Ohms max.
Case Isolation	>10	⁸ Ohms at 500 Volts

Ту	Typical Frequency Response (at 100mV/g)							
Sensitivity Change %	50% 40% 30% 20% 10% -10% -20% -30% -30% -40% -50%	i	10		1,000	10,000		

Applications

Environmental Operating Temperature Range

Maximum Shock

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)



-50 to 140°C

EN61326-1:2013

IP68

5000a

Cable Length (if integral cable) QXX - length specified in metros Product Prefix VS - IKM Instrutek Product Series 100 - Industrial Vibration Sensor ۷ S 1 0 0 S Х Х Х Х Χ Х Х Х Х Х
 Extra Options (if required)

 F - Filtered

 L - 316L Stainless Steel

 RT - Temperature Output PT100

 S - 90° Side Exit

 T - Temperature Output

 Y - 5% tolerance on sensitivity

 Sensitivity

 010
 - 10mV/g

 030
 - 30mV/g

 050
 - 50mV/g

 100
 - 100mV/g

 250
 - 250mV/g

 500
 - 500mV/g

 Resonant Frequency

 27kHz
 (1,620kcpm)

 25kHz
 (1,500kcpm)

 23kHz
 (1,380kcpm)

 21kHz
 (1,260kcpm)

 19kHz
 (1,140kcpm)

 17kHz
 (1,020kcpm)
 Range ±800g ±250g ±160g ±80g ±32g ±16g Mounting Threads 02 - ¼-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male Cable/Connector Cable/Connector 01 - PUR 02 - Braided 07 - Silicon 08 - Flame Retardant 50 - 2 Pin MS 54 - M12







We reserve the right to alter the specification of this product without prior notice TS536.1A

VS-170 Premium Accelerometer

AC acceleration output via 2 Pin MS Connector

Key Features

- Compact design
 Premium design
- Customisable features

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical



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Connection Details

Technical Performanc	e	Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8 Nm
Frequency Response	2Hz (120cpm) to 14kHz (840kcpm) ± 5%	Weight	52gms (nominal)
	1.5Hz (90cpm) to 16kHz (960kcpm) ± 10%	Screened Cable Assembly	see: www.IKMinstrutek.no for options
	0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB	Connector	VS-AA004 - non-booted
Isolation	Base isolated		VS-AA053 or VS-0054 - booted
Range	see: 'How To Order' table	Mounting Threads	see: 'How To Order' table
Transverse Sensitivity	Less than 5%		

Electrical	
Electrical Noise	0.1mg max
Current Range	0.5mA to 8mA
Bias Voltage	10 - 12 Volts DC
Settling Time	1 second
Output Impedance	200 Ohms max.
Case Isolation	>108 Ohms at 500 Volts

Environmental		
Operating Temperature Range	-55 to 130°C	
Sealing	IP68	
Maximum Shock	5000g	
EMC	EN61326-1:2013	

Typical Frequency Response (at 100mV/g)

How To Order

Applications

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body)



Product Series 170 - Compact Premium Industrial Vibration Sensor Product Prefix VS - IKM Instrutek Cable Length (if integral cable) QXX - length specified in metres V S 1 7 0 Х Х Χ Χ Х Χ Х Х Х Х Х Sensitivity 010 - 10mV/g 030 - 30mV/g 050 - 50mV/g 100 - 100mV/g 250 - 250mV/g 500 - 500mV/g Cable/Connector 02 - Braided 08 - Flame Retardant 50 - 2 Pin MS 54 - M12 Mounting Threads 01 - ¼-28" UNF Female 02 - ¼-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male 10 - M10 x 1.5mm Male Extra Options (if required) Range ±800g ±250g ±160g ±80g ±32g ±16g Resona 34kHz 32kHz 30kHz 28kHz 26kHz 24kHz t Frequency (2,040kcpm) (1,920kcpm) (1,800kcpm) (1,680kcpm) (1,560kcpm) (1,440kcpm) Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output PT100 S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensitivity www.IKMinstrutek.no



We reserve the right to alter the specification of this product without prior notice TS526.1E

IKMinstrutek@IKM.no



VS-170S Premium Accelerometer

AC acceleration output via 2 Pin MS Connector





Instrutek AS

How To Order

I-K-M

Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)

Cable Length (if integral cable) QXX - length specified in metres Product Prefix VS - IKM Instrutek Product Series 170 - Compact Premium Industrial Vibration Sensor X ۷ S 1 7 0 S Х Х Х Χ Х Х Χ Х Х Extra Options (if required) F - Filtered - 316L Stainless Steel RT - Temperature Output PT100 S - 90° Side Exit T - Temperature Output Y - 5% tolerance on sensitivity Cable/Connector 01 - PUR 02 - Braided 07 - Silicon 08 - Flame Retardant 50 - 2 Pin MS 54 - M12 itivity - 10mV/g - 30mV/g - 50mV/g - 100mV/ - 250mV/ - 500mV/ Sens 010 030 050 100 250 500 Range ±800g ±250g ±160g ±80g ±32g ±16g Reson 30kHz 28kHz 26kHz 24kHz 22kHz 20kHz t Frequency (1,800kcpm) (1,680kcpm) (1,560kcpm) (1,440kcpm) (1,320kcpm) (1,200kcpm) unting Threads - ¼-28" UNF Male - M6 x 1mm Male - M8 x 1.25mm Male 02 06 08 www.IKMinstrutek.no IKMinstrutek@IKM.no IKM





TS539.1A

VS-170S Premium Accelerometer

AC acceleration output via Silicon Cable

Key Features

- Premium design Waterproof
- Compact design

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical





Connection Details

Screen to case >+ve Power (White) No Connection (Red) 0V (Black)

Technical Performance		Mechanical	
Mounted Base Resonance	see 'How To Order' table (nominal)	Case Material	Stainless Steel
Sensitivity	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	2Hz (120cpm) to 14kHz (840kcpm) ± 5%	Mounting Bolt Provided	see: 'How To Order' table x 30mm long
	1.5Hz (90cpm) to 16kHz (960kcpm) ± 10%	Weight	135gms (nominal)
	0.8Hz (48cpm) to 19kHz (1,140kcpm) ± 3dB	Maximum Cable Length	1000 metres
Isolation	Base isolated	Standard Cable Length	5 metres
Range	see: 'How To Order' table	Screened Cable	Silicon - length to be specified with order
Transverse Sensitivity	Less than 5%	Mounting Threads	see: 'How To Order' table
		Submersible Depth	100 metres max (10 bar)

Electrical	
Electrical Noise	0.1mg max
Current Range	0.5mA to 8mA
Bias Voltage	10 - 12 Volts DC
Settling Time	1 second
Output Impedance	200 Ohms max.
Case Isolation	>10 ⁸ Ohms at 500 Volts

Environmental	
Operating Temperature Range	-55 to 130°C
Sealing	IP68
Maximum Shock	5000g
EMC	EN61326-1:2013

Typical Frequency Response (at 100mV/g)

50% 40% 20% 10% -10% -20% Sensitivity Change % -30% 1,00 100 Frequency Hz

Applications

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)



How To Order





www.IKMinstrutek.no IKMinstrutek@IKM.no We reserve the right to alter the specification of this product without prior notice

TS540.1A

CE X

VS-420 Accelerometer 4-20mA velocity output via 2 Pin MS Connector

Key Features • For use with PLC/DCS systems

Customisable features

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical



Technical Performance		Mechanical
Mounted Base Resonance	5kHz min	Case Material
Velocity Ranges	see: 'How To Order' table ±10%	Sensing Element/Const
	Nominal 80Hz at 22°C	Mounting Torque
Frequency Response 10Hz (600cpm) to 1kHz (60kcpm) ± 5% - ISO10816	Weight
Isolation	Base isolated	Screened Cable Assser
Range	50g peak	Connector
Transverse Sensitivity	Less than 5%	
		Mounting Threads

ai	
1	
nent/Construction	F
que	
ble Asssembly	see: www.IKMinstru
	VS-AA
	VS-AA053 or
eads	see: 'Ho

PZT/Compression
8Nm
150gms (nominal)
: www.IKMinstrutek.no for options
VS-AA004 - non-booted
VS-AA053 or VS-0054 - booted
see: 'How To Order' table

Electrical		Enviro
Current Output	4-20mA DC proportional to Velocity Range	Operatin
Supply Voltage	15-30 Volts DC (for 4-20mA)	Sealing
Settling Time	2 seconds	Maximun
Output Impedance	Loop Resistance 600 Ohms max. at 24 Volts	EMC
Case Isolation	>10 ⁸ Ohms at 500 Volts	

Typical Frequency Response

50% 40% 30% 20% 10% 0% Sensitivity Change % -20 -30 -40% -50% 100 Frequency Hz

onmental

ng Temperature Range . um Shock

-25 to 90°C IP68 5000g EN61326-1:2013

Stainless Steel

Applications Fans, Motors, Pumps, Compressors,

Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)



How To Order







VS-420S Accelerometer 4-20mA velocity output via 2 Pin MS Connector

Key Features

- · For use with PLC/DCS systems Side entry for easy access
 Customisable features

Industries

Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Water, Pharmaceutical







Technical Perforn	nance	Mechanical	
Mounted Base Resona	ance 5kHz mir	Case Material	Stainless Steel
Velocity Ranges	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Shear
	Nominal 80Hz at 22°C	Mounting Torque	8Nm
Frequency Response	10Hz (600cpm) to 1kHz (60kcpm) ± 5% - ISO10816	Mounting Bolt Provided	see: 'How To Order' table x 30mm long
Isolation	Base isolated	Weight	185gms (nominal)
Range	50g peak	Screened Cable Assembly	see: www.IKMinstrutek.no for options
Transverse Sensitivity	Less than 5%	Connector	VS-AA004 - non-booted
			VS-AA053 or VS-0054 - booted

Mounting Threads

ZT/Shear 8Nm)mm long (nominal) or options n-booted - booted see: 'How To Order' table

Electrical		Environmental	
Current Output	4-20mA DC proportional to Velocity Range	Operating Temperature Range	-25 to 90°C
Supply Voltage	15-30 Volts DC (for 4-20mA)	Sealing	IP68
Settling Time	1 second	Maximum Shock	5000g
Output Impedance	Loop Resistance 600 Ohms max. at 24 Volts	EMC	EN61326-1:2013
Case Isolation	>10 ⁸ Ohms at 500 Volts		

Typical Frequency Response

Applications

ŦШ -----100 Frequency Hz

Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)

We reserve the right to alter the specification of this product without prior notice



X

TS543.1A

How To Order

I-K-M

Instrutek AS

50% 40% 20% 10% -10% -20%

-309

Sensitivity Change %



VS-420S Accelerometer 4-20mA velocity output via Silicon Cable

Connection Details · For use with PLC/DCS systems 0 Side entry for easy access
 Waterproof > +ve Power (White) No Connection (Red) 64mm ov 1 ſŴı Building services, Pulp and Paper, Mining, Metals, Utilities, Automotive, Black White Screet to case -PLC/DCS

Technical Perforn	Technical Performance		Mechanical	
Mounted Base Resona	nce 5kHz min	Case Material	Stainless Steel	
Velocity Ranges	see: 'How To Order' table ±10%	Sensing Element/Construction	PZT/Shear	
	Nominal 80Hz at 22°C	Mounting Torque	8Nm	
Frequency Response	10Hz (600cpm) to 1kHz (60kcpm) ± 5% - ISO10816	Mounting Bolt Provided	see: 'How To Order' table x 30mm long	
Isolation	Base isolated	Weight	185gms (nominal)	
Range	50g peak	Maximum Cable Length	1000 metres	
Transverse Sensitivity	Less than 5%	Standard Cable Length	5 metres	
		Screened Cable	Silicon - length to be specified with order	
		Mounting Threads	see: 'How To Order' table	

Electrical		Environmental	
Current Output	4-20mA DC proportional to Velocity Range	Operating Temperature Range	-25 to 90°C
Supply Voltage	15-30 Volts DC (for 4-20mA)	Sealing	IP68
Settling Time	1 second	Maximum Shock	5000g
Output Impedance	Loop Resistance 600 Ohms max. at 24 Volts	EMC	EN61326-1:2013
Case Isolation	>108 Ohms at 500 Volts		

Typical Frequency Response

How To Order

Key Features

Industries

Water, Pharmaceutical

Applications

Submersible Depth



Fans, Motors, Pumps, Compressors, Centrifuges, Conveyors, Air Handlers, Gearboxes, Rolls, Dryers, Presses, Cooling, VAC, Spindles, Machine Tooling, Process Equipment

Vibration sensor should be firmly fixed to a flat surface (spot face surface may be needed to be produced and cable anchored to sensor body.)



100 metres max (10 bar)

Product Prefix VS - IKM Instrute Product Series 420 - Industrial Vibration Sensor Cable Length (if integral cable) QXX - length specified in metres S 2 S V 4 0 Х Х Х Х Х Х Х Х Х Х Extra Options (if required) F - Filtered L - 316L Stainless Steel RT - Temperature Output PT100 S - 90° Side Exit T - Temperature Output Cable/Connector 01 - PUR 02 - Braided 07 - Silicon 08 - Flame Retardant 50 - 2 Pin MS 54 - M12 Velocity Range (RMS unless specified) 010 - 0-10 mm/sec 020 - 0-20 mm/sec 025 - 0-25 mm/sec 050 - 0-50 mm/sec 100 - 0-100 mm/sec Mounting Threads 02 - 1⁄4-28" UNF Male 06 - M6 x 1mm Male 08 - M8 x 1.25mm Male P - Peak Range PP - Peak to Peak Range







	Materials of Cat	ble: C01-018 Silicon C	stale.	
Pos	Description	Dimension	Overall Diameter	Remarks
۹.	Tin plated sopper conductor insulation of ETFE	20 AWG 0,17	0,96 1,30	19 x 0,20 (0.6spmm)
2	Screen wire of tin plated copper	24 AWQ	0.00	19 x 0.13 (0.24somm)
3	Braided screen of tin plated copper	36 x 7x 0, 10 Lay = 23,4 Angle = 22,1	3,25	Coverage: 85% min
4	Non woven polyester binder		3,4	
5.	Jacket of Silicon, blue pressure-extruded round	0.90	5.2 riom	

Tech	nical Data of Cable		
Technical Data	Values at 20°C	Unit	
Conductor resistance	Max: 32,4	Q7 km	
Insulation resistance	+1500	MO x km	
Test voltage	3	KV DC	
Voltage rating	600	VAC	
Capacitance	Core-core: 178 ± 18	oF / km	
Cableogarce	Core-acreer: 335 ± 33	- nP-1 km	
	Core-core: 28,6 ± 28	1.4.1	
Impedance	Core-screen: 15,3 ± 2	0	
Weight	46	g/m	
Temperature rating	-50/+150	°C.	



	Materials of Cab	le: C01-001 PUR ca	5N0	
Pas	Description	Olimension	Overall Diameter	Remarks
1.	Tin plated copper conductor insulation of HFI 147	22 AWG 0.20	0.76	18 x 0.16 (0.34mm?)
2	Screen wire of thi plated copper	26 AWG	0.48	19-8-0,10 (0,16vmm*)
3.	Whapped aluminium polyester full screen		3.0	
4	Jacket of TPU 90 M, blue pressure-extruded round	: 1.15	53±02	

	Technical Data of Cable		
Technical Data	Values at 20°C	Unit	
Conductor resistance	Max: 53,1	D/km	
Insulation resistance	>1500	MD x MI	
Test voltage	3	KV DC	
Voltage rating	600	V AC	
and the second s	Core- opposite core: 138	and the second sec	
Capecitance.	Core-adjacent core: 145	n# (km	
	Core-screen: 240		
	Cors- opposite core: 48		
Impedance	Core-adjacent core: 44	9	
	Core-screen: 20		
Radiation tolerance	4 x 10 *0	Gy	
Weight.	38	g/m	
Temperature rating:	-807 +90	°C	
Core current ration	Max 6	Arren at 42°C ambuent air torney	



IKM Instrutek AS

HS-AC092PL.1A

HS-ACOSOPL 1A



VS-CE Connection Enclosure Painted Mild Steel

Key Features

- Provides a terminal to take readings from
- accelerometers via a portable data-collector • Multiple outputs via multiple connectors





Technical Performance

InputsVia accelerometerOutputBNC as standard (alternatives can be
specified in 'How To Order' table)Mounting BoardEngraved traffolyte panel
(customisable upon request)MaterialMild Steel painted RAL 7042 as
standard (alternatives can be specified
in options of 'How To Order' table)Dimensionssee: 'How To Order' table
Sealing

Termination	Klippon Type
Door	Twist Handle
Glanding	Glands supplied but not fitted
	Holes are punched for:
S	ingle input M12 - ø3.5-7mm cable
Single input	t M20 - ø7-13mm multi-core cable
	Multi input M20 - 3 x ø5.3mm
Labelling	Channel locations - other
	labelling available upon request
Mounting	supplied are 4 x Brackets
EMC	EN61326-1:2013

How To Order



VS-CE Connection Enclosure Polycarbonate

Key Features

- · Provides a terminal to take readings from
- accelerometers via a portable data-collector
- · Multiple outputs via multiple connectors





recinicari					
Inputs		Via ad	ccelerometer	Door	Catches
Output	BNC as	standard (alterna	atives can be	Glanding	Glands supplied but not fitted
	spe	cified in 'How To	Order' table)		Holes are punched for:
Mounting B	oard	Engraved tra	affolyte panel		Single input M12 - ø3.5-7mm cable
		(customisable u		Single i	nput M20 - Ø7-13mm multi-core cable
Material		Polycarbonate (to	be specified	-	Multi input M20 - 3 x ø5.3mm
	in o	otions of 'How To	Order' table)	Labelling	Channel locations - other
Dimensions	3	see: 'How To	Order' table	•	labelling available upon request
Sealing			IP66	Mounting	supplied are 4 x Brackets
Termination	1		Klippon Type		

How To Order

Technical Dorfor



VS-CE Connection Enclosure

Key Features

- Provides a terminal to take readings from
- accelerometers via a portable data-collector • Multiple outputs via multiple connectors





recinicar			
		_	
Inputs	Via accelerometer	Door	Lock and polyamide key
Output	BNC as standard (alternatives can be	Glanding	Glands supplied but not fitted
	specified in 'How To Order' table)		Holes are punched for:
Mounting B	oard Engraved traffolyte panel		Single input M12 - ø3.5-7mm cable
	(customisable upon request)	Single i	nput M20 - ø7-13mm multi-core cable
Material	304 Stainless Steel (to be specified	-	Multi input M20 - 3 x ø5.3mm
	in options of 'How To Order' table)	Labelling	Channel locations - other
Dimensions	see: 'How To Order' table	-	labelling available upon request
Sealing	IP66	Mounting	supplied are 4 x Brackets
Termination	Klippon Type	EMC	EN61326-1:2013

How To Order

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TS561.1

VS-JE Junction Enclosure

Key Features

- Accelerometer cable glandingEase of installation
- Flexible combinations

Technical Performance





Inputs	Accelero	meter cabling	Glanding	Glands supplied but not fitted
Output	Multi-	core glanding	•	Holes are punched for:
Material	Mild Steel painted	RAL 7042 as		Single input M12 - ø3.5-7mm cable
sta	andard (alternatives car	h be specified	Single in	nput M20 - ø7-13mm multi-core cable
	in options of 'How To	Order' table)		Multi input M20 - 3 x ø5.3mm
Dimensions	see: 'How T	o Order' table	Labelling	Channel locations - other
Sealing		IP66		labelling available upon request
Termination		Klippon Type	Mounting	supplied are 4 x Brackets
Operating Ter	mperature Range	-20 to 130°C	EMC	EN61326-1:2013

How To Order





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VS-SE Switching Enclosure Painted Mild Steel

Key Features

- Provides a terminal to take readings from
- accelerometers via a portable data-collector • Multiple outputs via one connector





Technical Performance

Inputs		Via	a acceleron	neter
Output	BNC as	standard (alte	rnatives ca	in be
	spec	cified in 'How	To Order' ta	able)
Mounting	Board		traffolyte p	
		(customisable		
Material		Id Steel painte		
5		(alternatives of		
		tions of 'How		
Dimensio	ns	see: 'How	To Order'	table
Sealing				IP66

Terminatio	n Din rail terminals wired to switch	
Door	Twist Handle	
Glanding	Glands supplied but not fitted	
	Holes are punched for:	
	Single input M12 - ø3.5-7mm cable	
Single ir	nput M20 - ø7-13mm multi-core cable	
	Multi input M20 - 3 x ø5.3mm	
Labelling	Channel locations - other	
	labelling available upon request	
Mounting	supplied are 4 x Brackets	
EMC	EN61326-1:2013	

How To Order



VS-SE Switching Enclosure

- Key Features
 Provides a terminal to take readings from
- accelerometers via a portable data-collector
- Multiple outputs via one connector





dimensions to be specified in 'how to order' table

Technical P	erformance		
Inputs	Via accelerometer	Door	Lock and polyamide key
	BNC as standard (alternatives can be		Glands supplied but not fitted
	specified in 'How To Order' table)	Ū	Holes are punched for:
Mounting Bo	ard Engraved traffolyte panel		Single input M12 - ø3.5-7mm cable
	(customisable upon request)	Single i	input M20 - ø7-13mm multi-core cable
Material	304 Stainless Steel (to be specified		Multi input M20 - 3 x ø5.3mm
	in options of 'How To Order' table)	Labelling	Channel locations - other
Dimensions	see: 'How To Order' table		labelling available upon request
Sealing	IP66	Mounting	supplied are 4 x Brackets
Termination	Din rail terminals wired to switch	EMC	EN61326-1:2013







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VS-AA002 Bracket



We manufacture a range of accessories for use with our comprehensive series of industrial accelerometers to achieve a secure surface fit.

Mounting Studs provide a secure, permanent or semi-permanent point of connection

Product Components



How To Order





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TS555.1

VS-AA031 Spot Facing Kit

Key Features

- Portable and compact
 Creates flat surface to ensure an effective mount for accelerometers
 Available with various mounting thread options
 Requires pistol drill





Product Description

The VS-AA031 Series product range includes all the necessary tools needed to accurately mount a vibration sensor onto the rotating machine. The packaged kit includes; tapping drill, taps, tap wrench and a spot facing tool, all presented in a compact portable box. There are three versions of the kit available to allow for different mounting threads; 1/4, M6 and M8.

The best possible method of mounting a sensor is via a drilled and tapped hole directly to the machine housing. However, this method often encounters problems when the housing is not flat. The spot facing tool kit allows the engineer to install the sensor on a flat surface ensuring best practice mounting technique.

How To Order



VS-AM Magnets - Flat Face



We manufacture a range of accessories for use with our comprehensive series of industrial accelerometers to achieve a secure surface fit.

Flat Face Pot Magnets provide a secure, semipermanent point of connection to a flat surface and all have an operating temperature range up to $120^{\circ}C$

VS-AM027 20mm 1/4"-28 UNF Male 12kg 8mm Image: Second sec
VS-AM028 20mm M6 Male 12kg 8mm
VS-AM029 20mm M8 Male 12kg 8mm 🖉 🍚
VS-AM029 20mm M8 Male 12kg 8mm 🗶 🎔
VS-AM030 20mm 10-32 UNF Male 12kg 8mm 🕘 💭
VS-AM009 25mm 1/4"-28 UNF Male 13.5kg 8mm 🕘 🍚
VS-AM006 25mm M6 Male 13.5kg 8mm 🕘 🍚
VS-AM007 25mm M8 Male 13.5kg 8mm 🔮 🎱
VS-AM024 25mm 10-32 UNF Male 13.5kg 8mm
VS-AM008 25mm Q-Fit Male 13.5kg 14mm 💽 💓
VS-AM014 25mm 1/4"-28 UNF Female 13.5kg 15mm
VS-AM015 25mm M5 Female 13.5kg 15mm





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VS-AM Magnets - Pole Piece



We manufacture a range of accessories for use with our comprehensive series of industrial accelerometers to achieve a secure surface fit.

Pole Piece Pot Magnets provide a secure, semi-permanent point of connection to a curved surface and all have an operating temperature range up to 120°C

Part No.	Diameter	Thread	Pull Strength	Height		
VS-AM020	20mm	1/4"-28 UNF Male	8.5kg	17mm	1	-
						-
VS-AM001	25mm	1/4"-28 UNF Male	18kg	17mm	H.	
					-	-
VS-AM002	25mm	M6 Male	18kg	17mm	-	
						-
VS-AM003	25mm	M8 Male	18kg	17mm	1	
					-	
VS-AM004	25mm	10-32 UNF Male	18kg	17mm	1	
					-	-
VS-AM026	25mm	1/2" UNC Q-Fit Male	18kg	21mm		
						-
VS-AM005	25mm	Q-Fit Male	18kg	23mm	0	
					. CE	<i>w</i>
VS-AM010	25mm	M5 Female	18kg	23mm	1	
VS-AM011	25mm	M6 Female	18kg	23mm	8	
VS-AM012	25mm	1/4"-28 UNF Female	18kg	23mm		
						-
VS-AM013	25mm	M8 Female	18kg	23mm		
					100	





CE

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VS-AS Studs



We manufacture a range of accessories for use with our comprehensive series of industrial accelerometers to achieve a secure surface fit.

Mounting Studs provide a secure, permanent or semi-permanent point of connection

Part No.	Connection Point 1	Connection Point 2		
VS-AS001	Quick Fit Male	Glue Face		0
VS-AS002	Quick Fit Male	M8 Male	0	Ð
VS-AS003	Quick Fit Male	M6 Male		Ð
VS-AS004	Quick Fit Male	1/4"-28 UNF Male		Ð
VS-AS006	Quick Fit Female	1/4"-28 UNF Male		
VS-AS007	Quick Fit Male	M10 Male	9	0
VS-AS008	1⁄4"-28 UNF Male	M8 Male	Ð	£
VS-AS012	Quick Fit Male	1/4"-28 UNF Female	Ð	0
VS-AS014	1/4"-28 UNF Male	Glue Face		0
VS-AS018	Quick Fit Male (½" UNC)	Glue Face		0
VS-AS021	¼"-28 UNF Male	M10 Male	Ð	0
VS-AS027-1/4	1/4"-28 UNF Female	Glue Face		9
VS-AS027-M6	M6 Female	Glue Face	2	<u>e</u>
VS-AS027-M8	M8 Female	Glue Face	2	
VS-AS029	10-32 UNF Male	Glue Face		
VS-AS032	Quick-Fit Female	M8 Male		Construction of the second







VS-660 Accelerometer Cable & Bias Checker



Technical Performance

Input	
Display	
LED	

Connection Leads

Enclosure Size Battery life

Weight EMC

Constant current accelerometer Indicates the DC bias of accelerometer Indicates status of test accelerometer Green - OK Red - High Bias Voltage Amber - Low Bias Voltage BNC socket Supplied with 0.5 m BNC plug lead for connection to BNC socket or switch box. Spring clip lead to enable direct connection to an accelerometer with flying leads Blue plastic, with rubber moulding 75 x 125 x 300 mm 3 hrs (1 x PP3) Low battery indicator on display 270 gms EN61326-1:2013



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VS-661 Accelerometer Simulator



Technical Performance

Input	100mV/g monitoring system
Output	50mV rms @ 156 Hz = 5mm/s rms (0.5g rms)
	or 200 mV rms @ 156 Hz = 20 mm/s rms (2g rms)
LED	Indicates function
	Green - Power On
	Red - 20mm/s
	Amber - 5mm/s
Connection	BNC socket
Leads	Supplied with 0.5 m BNC plug lead
	for connection to BNC socket or switch box.
	Also lead to enable direct connection to
	an accelerometer with flying leads
Enclosure	Blue plastic, with rubber moulding
Size	75 x 125 x 300 mm
Battery life	3 hrs (1 x PP3)
	Low battery indicator on display
Weight	270 gms
EMC	EN61326-1:2013



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TS549.1A



Quality, expertise, approval and certificates

IKM Instrutek is a specialist company certified and approved within many different fields.

Specific certificates and approvals for different products and services are available upon request.







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