EDX-200A Universal Recorders

Sensor to recommend

Strain Gages

Encapsulated Strain Gages

Load Cells

Pressure Transducers

Acceleration Transducers

Torque Transducers

Displacement Transducer:

thermocouple

CAN



EDX-200A-4H



Improved real-time processing function with high-speed DSP

- Incorporated real-time digital filter 8th digital filter enables to acquire clear waveform.
- High-speed/low-speed dual sampling Measurement of high-speed and low-speed phenomena while constraining data quantities is possible.
- All channels simultaneous 10kHz high-speed sampling (for 32 channels)
- Measurement of 3 channels simultaneously at max. 100kHz
- Variety of input conditioner card
- One-wire synchronous With a maximum of 8 units using dispersion, support for large-scale measurements possible.
- Measurement execute key enables to measure without PC on site.
- •Usable under high/low-temperature environments (EDX-200A-4T)

Conditioner cards(For the detail refer to page P3-83)

Strain/voltage/acceleration measurement card Strain/voltage measurement card Dynamic strain measurement card	CVM-40A CDV-40B/40B-F DPM-42B DPM-42B-F
	DPM-42B-I
	DPM-42B-I-F
Thermocouple card	CTA-40A
F/V converter card	CFV-40A
Charge amplifier card	CCA-40A/40A-F
CAN card	CAN-40A/41A
Strain/voltage measurement insulation card	CDV-44AS
Direct rated current expansion card (120 Ω)	CDA-44AS
Direct rated current expansion card (350Ω)	CDA-45AS
AD Converter Cards	AD-40AS/40AS-F
EDX-200A-4T accepts only CVM-40A,CDV-40B/A,C	DV-40B/A-F, pansion

Option cards(For the detail refer to page P3-73)

Multichannel CAN Card	ECAN-40
Time synchronization card	ETIM-40A
GPS/Multichannel CAN Card	EGPC-40A

EDX-200A Specifications

Model							
	Model	Maximum input CH	No. of conditioner slots	Optional slot nos.	Control software DCS-100A	Video collection/ basic arithmetic calculations software DCS-101A	Reference
	EDX-200A-2H					×	
	EDX-200A-2H-0	16	2	1	×	×	
	EDX-200A-2H-1						_
	EDX-200A-4H				•	×	<i+< td=""></i+<>
	EDX-200A-4H-0	32	4	1	×	×	۱ha
	EDX-200A-4H-1						nd
	EDX-200A-4T					×	°
	EDX-200A-4T-0	32	4	1	×	×	
	EDX-200A-4T-1						
	(Note) Maximum i	nput CH	I: When	8CH inp	ut condition	er card inserte	d
Μ	easuring Target :	Strain (ga	ige, trans	ducer), vo	oltage, thermo	couple, pulse (l	=/V)
		Piezoele	ctric acce	eleration	(built-in amp	olifier), CAN sig	nal
A	halog input: The o	condition	her card	for EDX	series		
	(For	the deta	il refer to	o page P	3-83)		
	Note	:EDX-20	0A-4T ao	ccepts or	nly CVM-40A	, CDV-40B/A a	nd
		CDV-40	B/A-F fo	or which	temperature	expansion	
		measur	es are ta	iken.			
		Once m	ounted, t	the cond	itioner cards c	annot be repla	ced.
C/	AN data input : Eit	her CAN-	40A or C	AN-41A	can be mount	ed to the last s	lot.
	Note	e: EDX-20	00A-4T a	accepts c	only CAN-40A	or CAN-41A	for
		which	tempera	ature exp	pansion meas	sures are taker	า.
		Once r	nounte	d, the CA	N card canno	ot be replaced	
Vo	oice Memo Input	: 1CH (in	put voice	e memo	data can be r	ecorded toge	ther
		with th	e measu	rement	data)		
		Use ren	note cor	ntrol unit	RCU-42A (op	otional access	ory)
		Use the	data pla	ayback s	oftware DAS-	-200A (option	al
		accesso	ry) to pl	ay back i	recorded void	e memos	
Sa	mpling: Sampling	g format	all chan	nels sim	ultaneously		
	Sampling mode :						
	Normal : All cha	nnels co	llected u	ising the	same sampli	ng frequency	
	Dual : High-s	peed or	low-spe	ed, colle	cted using 2 t	ypes of	
	sampli	ng fregu	iency set	t for eacl	n channel		
	Sampling freque	ncy					
	1 / 2 / 5 series :	1Hz~	100kHz	Whe	en up to 3 cha	annel collectio	n
		1Hz~	50kHz	Whe	en up to 6 cha	annel collectio	n
		1Hz~	20kHz	Whe	en up to 16 cl	nannel collect	ion
		1Hz~	10kHz	Whe	en up to 32 d	nannel collect	ion
	2 ⁿ series : 2Hz~	-65536F	17	Whe	en up to 4 ch	annel collectio	n
		2Hz~	32768H	z Whe	en up to 9 ch	annel collectio	n
		2Hz~	16384H	z Whe	en up to 19 d	nannel collect	ion
		2H7~	8192Hz	 Whe	en up to 32 d	nannel collect	ion
	CAN data colle	ction(R)	usina (AN-404	(41A):		
	2	1Hz~2	kHz (1/2/	series) M	lax 24ch + no r	of CAN data chan	nels
		2H7~7	048Hz (2n	series) M	ax. 24ch+ no. of	f CAN data chann	nels
		(FDX-7	00A-2H	is max 8	sch+no of CL	N data chann	
		*In du	al sampl	ina moo	e low_sneed	sampling	(13)
		frequ	encylise	electable	a at 1/4 or lag	s of high-spec	-d
		samn	ling free	Uepcy		s or night spee	
		*Anv c	ard inser	ted to th	e ontional do	t does not rest	rict
		select	ion of sa	mplina fr	requency.		

Digital Filter: 8th Butterwo	orth low pass filter (ap	plication on CAN data not possible)
Amplitude	ratio at cutoff poin	t -3dB
Attenuation	n characteristics	-48dB/oct.
Concurrent	usage with low pa	ass filter incorporating
conditioner	card possible	
Display: CH status d	isplay LED :	
EDX-200A	A-2H . 10	
EDX-200A	-4п.52 _ЛТН · 32	
Unit status	display LED:	
EDX-200A	-2H : 7	
EDX-200A	-4H : 7	
EDX-200A	-4T : 7	
Unit status	display organic EL	monitor :
EDX-200A	x-2H : 1	
EDX-200A	A-4H : 1	
EDX-200A	x-4T : 1	
Operating Switch :		
DOWN Status dis	play organic EL mo	nitor display switching
STOP Stop data	recording	
BAI Implement	t balance (balance	adjustment)
LOAD : Read and	configure conditio	ons from CE card
OPT. : Execute a	rbitrary configured	functions
ID : EDX ident	ifier configuration	
POWER : Power sw	itch	
USB/LAN : Commun	ications I/F switchi	ng
External Control Connector	or: CONT IN, CON	TOUT
	(remote contro	ol, for simultaneous operation)
Communications Interfac	ce: USB (USB2.0 H	igh Speed) 1 port
	Connector con	figuration: series B receptacle
	following ports	ASE-T) 2 port (nowever,
	Connector con	figuration: BI45 modular jack
Synchronized Operation	: With synchroniza	tion cable (N-95) connection
Synchronized Operation	number of units w	/ith simultaneous operation : 8
	With LAN cable co	onnection, number of units with
	simultaneous ope	ration : 8
Setting Conditions		
Online : From the PC thr	ough LAN or USB p	port
Online : From the PC thr Offline : By reading from	ough LAN or USB p the CF card which	port has measuring conditions
Online : From the PC thr Offline : By reading from written with the	ough LAN or USB p the CF card which DCS-100A data a	port has measuring conditions cquisition software
Online : From the PC thr Offline : By reading from written with the Saving Conditions : Reco	ough LAN or USB p the CF card which DCS-100A data a rding of condition	port has measuring conditions cquisition software er configuration conditions ditions within the EDX built in
Online : From the PC thr Offline : By reading from written with the Saving Conditions : Reco and r	ough LAN or USB p the CF card which DCS-100A data a rding of condition measurement cond olatile memory, ar	bort has measuring conditions cquisition software er configuration conditions ditions within the EDX built- in dimmediate commencement
Online : From the PC thr Offline : By reading from written with the Saving Conditions : Reco and r nonv	ough LAN or USB p the CF card which DCS-100A data a rding of condition measurement conc olatile memory, ar ta collection using	bort has measuring conditions cquisition software er configuration conditions ditions within the EDX built- in id immediate commencement the previously configured
Online : From the PC thr Offline : By reading from written with the Saving Conditions : Reco and r nonv of da meas	ough LAN or USB p the CF card which DCS-100A data a rding of condition measurement conc olatile memory, ar ta collection using surement condition	bort has measuring conditions cquisition software er configuration conditions ditions within the EDX built- in id immediate commencement the previously configured ns after power-on is possible.
Online : From the PC thr Offline : By reading from written with the Saving Conditions : Reco and r nonv of da meas Data Recording : CF ca	ough LAN or USB p the CF card which CCS-100A data are rding of condition measurement conc olatile memory, ar ta collection using surement condition rd	bort has measuring conditions cquisition software er configuration conditions ditions within the EDX built- in id immediate commencement the previously configured ns after power-on is possible.
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Online : From the PC thr Offline : By reading from written with the Saving Conditions : Reco and r nonv of da meas Data Recording : CF ca Capa Measurement Modes :	ough LAN or USB p the CF card which DCS-100A data a rding of condition measurement conc olatile memory, ar ta collection using surement condition rd city: 128M~16GB Manual measure	oort has measuring conditions cquisition software er configuration conditions ditions within the EDX built- in id immediate commencement the previously configured ns after power-on is possible. (Kyowa recommended product) ment/trigger measurement/
Online : From the PC thr Offline : By reading from written with the Saving Conditions : Reco and r nonw of da meas Data Recording : CF ca Capa Measurement Modes :	ough LAN or USB p the CF card which DCS-100A data a rding of condition measurement conso olatile memory, ar ta collection using surement condition rd city: 128M~16GB Manual measure interval measure	ort has measuring conditions cquisition software er configuration conditions ditions within the EDX built- in id immediate commencement the previously configured ns after power-on is possible. (Kyowa recommended product) ment/trigger measurement/ ment
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Online : From the PC thr Offline : By reading from written with the Saving Conditions : Reco and r nonw of da meas Data Recording : CF ca Capa Measurement Modes : Manual measurement : Interval measurement : High-speed M	ough LAN or USB p the CF card which DCS-100A data arding of condition measurement conco olatile memory, ard ta collection using surement condition rd city: 128M~16GB Manual measure interval measure interval measure bata recording is stopped when da number of measure Manual mode all during data recor Data recording is the preset trigger Note that any CA trigger condition Automatically rec previously-set int Combination wit dual sampling sampling channel lanual	bort has measuring conditions cquisition software er configuration conditions ditions within the EDX built- in ad immediate commencement the previously configured ns after power-on is possible. (Kyowa recommended product) ment/trigger measurement/ ment manually started/stopped or ata is recorded to a preset ured data. ows recording of voice memo rding. automatically started when r condition is satisfied. N data cannot be used as the cording functions based upon erval conditions h measured mode when in Low-speed sampling channel Manual
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Online : From the PC thr Offline : By reading from written with the Saving Conditions : Reco and r nonv of da meas Data Recording : CF ca Capa Measurement Modes : Manual measurement Trigger measurement : Interval measurement Manual measurement : Manual measurement :	ough LAN or USB p the CF card which DCS-100A data are rding of conditioned measurement conditioned ta collection using surement conditioned rd city: 128M~16GB Manual measure interval measure interval measure : Data recording is stopped when da number of measure Manual mode all during data record Data recording is the preset trigger Note that any CA trigger condition : Automatically ree previously-set int Combination wit dual sampling sampling channel lanual rigger	bort has measuring conditions cquisition software er configuration conditions ditions within the EDX built- in a immediate commencement the previously configured as after power-on is possible. (Kyowa recommended product) ment/trigger measurement/ ment manually started/stopped or ata is recorded to a preset ured data. ows recording of voice memo rding. automatically started when r condition is satisfied. N data cannot be used as the cording functions based upon erval conditions h measured mode when in Low-speed sampling channel Manual Interval Interval itch (panel screen), ed remote control
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Data Recove	er: Online recovery using PC, or offline recovery using
	direct reading from CF card to PC
TEDS Functi	on: Only when using online control from a PC
	Supported conditioner card : CDV-40B(-F),
	DPM-42B(-F, -I, -I-F), CCA-40A(-F), CDV-44AS,
	CDA-44AS, CDA-45AS, CVM-40A
	Note: EDX-200A-4T accepts only CVM-40A,CDV-40B and
	CDV-40B-F for which temperature expansion
	measures are taken.
Power Supp	oly: DC10 to 36V
	connector type: RM12BRD-4PH (Hirose Electric)
	Use DC power source or AC adapter (optional accessory)
Current Cor	nsumption :
EDX-200A	-2H: Approx. 1.6A (DC12V, when CDV-40B ×2 installed)
EDX-200A	-4H : Approx. 2.6A (DC12V, when CDV-40B ×4 installed)
EDX-200A	-4T: Approx. 2.6A (DC12V, when CDV-40B ×4 installed)
Usable Tem	perature Range: 0 to 50°C(EDX-200A-4T:-20 to 65°C)
Used Humic	dity Range: $20 \sim 90\%$ RH (noncondensing)
Storage Ten	nperature Range: -20 to 60°C(EDX-200A-4T:-30 to 70°C)
Vibration Re	esistance :
49.0m/s ² (5G), 5~55Hz 1 cycle 1 min., each axis 15 cycles (non-operating)
29.4m/s ² (3G), 5 \sim 55Hz 1 cycle 1 min., each axis 15cycle (operating)
Impact Resi	stance : 196.1m/s² (20G)/11msec
EMC Directi	ve : EN61326-1(Class A)
Dimensions	: EDX-200A-2H:120mm (W) ×132.5mm (H) ×255mm (D)
	not including protrusions
	EDX-200A-4H:165mm (W) ×132.5mm (H) ×255mm (D)
	not including protrusions
	EDX-200A-4T: 185.2mm (W) ×142.8mm (H) ×255mm (D)
	not including protrusions
Weight:	EDX-200A-2H : Unit approx. 1.8kg
	(when CDV-40B ×2 installed, approx. 2.0kg)
	EDX-200A-4H : Unit approx. 2.1kg
	(when CDV-40B x4 installed, approx. 2.6kg)
	EDX-200A-4T: Unit approx. 3.7kg
	(when CDV-40B ×4 installed, approx. 4.2kg)

The corresponding plan to EU' s RoHS Directive 2011/65/EU in fiscal 2015

Standard Accessories Dynamic data acquisition software DCS-100A (CD) USB cable N-38 (1m) DC power Supply cable P-76 (2m) Earth wire P-72 (5m) CF card (1GB) Inserted in slot Fused, rated current 8A Dummy panel (1) *Ships with the dummy panel in the empty slot Instruction manual (J/E, on CD) EDX accessory bag

Optional Accessories

EDX-200A AC adapter 4H,4T: UEA360-1540, 2H:UIA345-12 CVM input cable (integrated connector NDIS female connector 8ch) U-121 (0.5m), U-122 (1.0m), U-123 (1.5m) Voltage/piezoelectric input connector (1ch) FV-1A 1 gage compact bridge boxes (8ch) DB5-120/350A-8 Compact bridge boxes (8ch) DB5-120/350V-8 Voltage input box VI-8A CVM input cable (both end integrated connector) N-121 (1.5m) Monitor output cable (integrated connector BNC connector) U-62 (1.1m) EDX dummy panel (set of 3) EDX3P-DUMMY EDX dummy panel (1) EDX1P-DUMMY Synchronization cable N-95 (2m) Remote control unit RCU-42A (1.5m)



:::) Data Recorders/Analyzers



 Sensor to recommend Strain Gages

Encapsulated Strain Gages

Load Cells

Pressure Transducers

Acceleration Transducers

thermocouple

Voltage

DCS-100A software specifications (standard accessories)

(Not included with EDX-200A-4H-0, EDX-200A-2H-0)

•Various graph/numerical value monitor display – Free positioning of graph/numerical value window

- ·Control of Kyowa recorders possible
- ·Direct saving of collection data on PC hard disk possible
- •Data processing and analysis software (optional) can be started from the tool bar

Number of U	nits that can	be Controlled : Max. 8 (max. 256 CH)
Interface :	LAN, USB	
Collection :	Measureme	nt data is saved on the EDX-200A CF card or
	PC hard disk	c (saved as KS2 file).
Applicable co	onditioner ca	rds: CDV-40B/A(-F), DPM-42B(-F,-I,-I-F),
	-	CCA-40A(-F), CVM-40A, CDA-44AS/45AS,
		CTA-40A, CFV-40A, CAN-40A, CAN-41A,
		CDV-44AS,AD-40AS(-F)
Channel con	ditions: Mea	asurement ON/OFF, mode, range,
	hiał	pass filter balance ON/OFE CAL range
	CAL	ON/OFF correction coefficient offset units
	CH r	name measurement range decimal point
	num	aber of subsequent digits rated capacity
	rate	d output digital filter sampling frequency
	(sole	act dual sampling high-speed low-speed
	hiak	-speed+low-speed) (selection of arbitran
	disp	lay items possible)
Reading TED	S Informatio	n : Automatic setting of TEDS information
Reading TED	Simonnatio	reading and of channel conditions
Dual Samplin	Dicr	blay of high speed/low speed sampling data in
	ig. Disp	nay of high-speed/low-speed sampling data in
	num	herical value or graph window possible
	Higi	n-speed/low-speed sampling data is stored in
	sepa	arate files
Parameter Se	ettings and R	eading:
Reading an	a contigurati	on of EDX-200A internal parameters possible
Data File Rec	overy: Reco	overy of KS2 files within EDX-200A CF card
Data File Del	etion: Dele	etion of KS2 within EDX-200A CF card
Environment	Settings	
Hardware	configuratio	n setting :
Hardwar	e configuratio	on setting, connected units,
configura	ation of equip	oment name
Reading	of hardware of	configuration from EDX-200A possible
Communicat	ions Check :	Read EDX-200A version
Data File Aut	omatic Conv	version : At the end of measurement,
automatica	Ilv converts th	he file (CSV format, XLS format, XLSX format,
RPCIII form	at).	
Arbitrary Uni	t Settings :	The user can register 3 types of unit types from
,, ,	j_	those that can be set
Othor: Oscilla	tor switching	(internal external) operation been cound
balanco eta	ndard value	AD data format (16 bit 24 bit)
Massurement		AD data format, (10 bit, 24 bit)
Campling		ien storing Recording data on the EDS-200A CF Ca
Sampling I	requency:	
1~100ki	HZ (1/2/5 seri	ies, 211 series, external clock)
Limitatio	ons exist depe	ending on measurement channel
Dual sam	ipling suppor	t (configuration of high-speed/low-speed
sampling	possible)	
Data file size	: Max. 4GB	
Measured	mode :	Manual, manual (specified amount of collection
		data), interval, analog trigger, external trigger,
		composite trigger
Manual me	easurement :	Measurement is made from a press of the REC
		button to a press of the STOP button or to
		completion of recording to the preset number
		of measurements.
Interval me	easurement :	Measurement is made automatically at preset
		intervals from the preset starting time.
Trigger me	asurement :	Start/stop recordig based upon specified
		trigger conditions (The trigger standard values
		are set absolute triggers)
· Comm	on triagor co	
(1) End	d trigger co	Sottings possible
(1) End	a trigger:	Settings possible
(2) Del	lay: For both	start/stop, maximum 262, 144 data items/ ICH
A 1	Delay diffe	ris depending on the number of measurement channe
· Analog	j trigger cond	aitions
(1) Trig	ger channel	: Arpitrary I channel
(2) Trig	ger level :	Set depending on physical quantity
(3) Tri <u>c</u>	gger slope :	Start-up/shutdown
 Externa 	al trigger me	asurement
(1) Tri	gger slope :	Start-up/shutdown
· Compo	site trigger o	conditions
(1) Tric	gger source :	Select from analog CH (master EDX arbitrary
4CH), external tric	gger, manual trigger. Logical distinction using
AND)/OR for trian	er source possible
(2) Trie	ner level ·	Set depending on physical quantity
(2) 119	Jyci ievei.	Start-up/shutdown
(2) Tri/	ider ciono ·	

Sampling freq	Hency: $1 \sim 100 \text{ kHz} (1/2/5 \text{ series } 2^{\text{n}} \text{ series external clock})$
Det-fil.	
Data file size :	Until limits of hard disk capacity
Measurement	mode: Manual, manual (specified amount of collection
	data), interval
Manual measu	urement: Measurement is made from a press of the REC
	button to a press of the STOP button or to
	completion of recording to the preset number
	of measurements.
Interval measu	urement : Measurement is made automatically at preset
	intervals from the preset starting time.
Trigger measu	rement : Start/stop recordig based upon specific
mggermeasa	trigger conditions (The trigger standard values
	are set absolute triggers)
(1) End tri	ager: Settings possible
(2) Delay :	For both start/stop maximum 264 144 data items/1CH
(2) Delay .	Delay differs depending on the number of measurement channels
(2) Triago	
(4) Trigger	r loval: Set depending on physical quantity
(F) Trigger	
(5) Trigger	r siope. Start-up/shutdown
VT:see and the	The Martin is the stimulation of the Martin is
Y-Time graph :	The X axis is the time axis, and the Y axis is
	the measured physical display, and display of a
	maximum 16 channels is possible
	Display of 1 to 4 graphs on 1 screen is possible
	parting line.
Y-Time (DIV) g	raph: The X axis is the time axis, and the Y axis is the
	physical quantity, and display of a maximum 16
	channels is possible
	Different to the time series graph above,
	the displayed channels 0 point position can be
	changed to an arbitrary point on the Y axis
X-Y graph :	Graph display for both the X/Y axis using arbitrary 8 channel
	combinations is possible
Bar graph :	Display of a maximum of 32 channels on 1 graph is
• •	possible. Display of 1 to 4 graphs on 1 screen possible.
	Peak hold ON/OFF (numerical value display possible)
Bar meter :	Display of an arbitrary channel horizontally or vertically is possible
Circular meter	Display of an arbitrary channel with the Circular meter is possible
Numerical valu	e display : Arbitrary 1 channel display, arbitrary 16 channel
	display (maximum value & minimum value
	display of each channel possible)
Screen Display	Colors: Arbitrary change of graph units possible
Title label	Arbitrary setting of title and X/Y axis labels possible
Simultaneous	display items :
numerical va	lue display: 32 various graphs: 32
With numeri	ical value display and graph display display of up to 64
items possibl	le (including graph display displayed in data reproduction/
	c (including graph display displayed in data reproduction/
numerical va	lue display items)
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Simultaneous display items :
numerical value display : 32, various graphs : 32
With numerical value display and graph display, display of up to 64
items possible (including graph display displayed on monitor screen/
numerical value display items)
(*) Display of the maximum numbers may not be possible, depending
on the PC CPU speed and memory capacity.
Display possible data file size : Data file size that can be displayed
at one time in the graph/numerical value display is max. 10MB.
If 10Mbytes is exceeded, then by setting the display range, display of
an arbitrary range of 10MB of data is possible.
File conversion : Arbitrary range or channel file clipping,
CSV file conversion, Excel format conversion, and RPCIII format
conversion are possible

Operating Environment :		
OS:	Windows XP, Windows Vista, Windows 7, Windows8/8.1	
	Japanese/English, 32/64 bit	
	(If OS is Windows XP, only 32 bit is supported)	
CPU:	Pentium4 2GHz or better	
	(If OS is Windows XP, Pentium III 1GHz equivalent or better)	
Memory:	2GB or more	
	(If OS is Windows XP, 1GB or more)	
Display :	Resolution: 1024×768 dots or more	
HDD:	At installation, 20MB+measurement data storage space	
Interface :	100Base-TX, USB (depending on controlled devices)	
	*If 64 bit OS, operate in WOW64	
	Operates using WOW64 (Windows 32-bit On Windows 64-bit)	

Dimensions(Handle grip in blue)





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.... Data recorders/analyzers

Sensor to recommend

Strain Gages

Encapsulated Strain Gage

Load Cells

Pressure Transducers

Acceleration Transducers

Torque Transducers

Displacement Transducers

thermocouple

Voltag

CAN

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