



Numerical Data Indexing

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Introduction

Numerical Data Indexing is applied to Inspec records when numerical data appear in the original title or abstract, or are encountered in the normal processing of the original document, and where they appear important for computer-assisted retrieval.

Data are likely to be important for computer-assisted retrieval if they fall into any of the following categories:

- a) Relevant and essential operating characteristics of actual or potential devices, instruments, equipment, machines or systems for which subject headings are assigned. Characteristics of particular importance include frequency, wavelength, power and energy.
- b) Relevant and important criteria of effects, phenomena and processes for which subject headings are assigned. This is likely to be the experimental or operating conditions, measured values or observations. Temperature, pressure and frequency or wavelength are criteria of particular importance.

Only actual numbers are indexed. No attempt is made to index implied ranges such as "millimetre waves", "UV region", "VHF", etc.

Inspec Numerical Data Indexing can be searched within records from 1987 onwards. Numerical information in the format used within the original document can also be found within the Inspec Free Indexing (or supplementary terms, uncontrolled terms, etc) field.

Each Numerical Data Indexing term has the following format:

Quantity Value (to Value) Unit where:

quantity represents the physical quantity, for example temperature,
unit is of the SI type, for example metre (m),
value is the actual value or range expressed in floating point format.

Numerical Data Indexing Thesaurus

The Numerical Data Indexing Thesaurus is used as an authority file to control the quantities and units appearing in the Inspec database. This booklet contains:

- The Inspec Numerical Data Indexing Thesaurus,
- An explanation of its entries,
- A table of multiplying prefixes.

The information in this booklet is intended to aid users in determining:

- which quantities to search for,
- which units their search data should be in,
- how to convert data to these units should their data be in other units, and
- how to use Inspec Numerical Data Indexing with each Inspec Vendor search system.

1.0 *Thesaurus Entries*

There are two types of entry within the Numerical Data Thesaurus:

1.1 Preferred Quantity/Unit

These are of the form:

Quantity : Unit (Name)
Scope Note
Unit Information

Where 'Quantity : Unit' is the preferred quantity and unit combination,
'Name' is the full name where 'unit' is an abbreviation,
'Scope Note' is any additional information on the use of this quantity,

'Unit Information' is information about units other than the preferred unit and how to convert data in these units to the preferred unit.

e.g. temperature : K (kelvin)

Used for absolute temperatures and not temperature differences

C *use* K [K = C + 273.15]

degC *use* K [K = degC + 273.15]

F *use* K [K = (F + 459.67) x 0.5555556]

degF *use* K [K = (degF + 459.67) x 0.5555556]

degK *use* K

All quantities were introduced at the start of 1987 unless a later start date is given, e.g. see Byte rate... 1989-.

Unit information can be of two types:

- a) Unit Synonym Information: These point to preferred units from numerically identical units for preferred quantities. They are of the form:

Unit *use* Unit P

where Unit P is the preferred unit, e.g. degK *use* K.

- b) Unit Conversion Information: These point to preferred units from other units for given quantities. The numerical relationship between the two units is given. These are of the form:

Unit L *us* Unit P [Unit P = F(Unit L)]

Where Unit L is the listed unit and Unit P is the preferred unit and [F(Unit L)] is the equation for converting Unit L into Unit P, e.g. degC *use* K [K = degC + 273.15]

1.2 Lead-in Entries

These entries point to preferred quantities from either units or non-preferred quantities. They are of the form either:

Quantity *use* Quantity P, e.g. electric potential *use* voltage, or,

Unit *see* Quantity P, e.g. hour *see* time

2.0 Thesaurus

age : yr (year)

Used for cosmological, geological, archaeological and biological time scales.

altitude : m (metre)

Measured from surface (liquid or solid) for Earth and all planetary bodies. Measured from photosphere for Sun. For negative values use depth.

feet *use* m [m = feet x 0.3048]

yard *use* m [m = yard x 0.9144]

mile *use* m [m = mile x 1609.344]

amp *see* current

apparent power : VA (volt-amps)

Used for power apparatus, equipment, etc. when power ratings or levels are given in VA.

astronomical unit *see* heliocentric distance

atmosphere *see* pressure

bandwidth : Hz (hertz)

Use frequency where specific ranges are given.

bar *see* pressure

becquerel *see* radioactivity

bit *see* storage capacity or word length

bit rate: bit/s (bit per second)

Used for digital communication rates given in bit/s.

breadth *see* size

Byte *see* memory size

Byte rate : Byte/s (Bytes per second)

Used for digital communication rates given in Byte/s; 1989-

calorie *see* energy

capacitance : F (farad)

celsius *see* temperature

centigrade *see* temperature

characters per second *see* printer speed

cm Hg *see* pressure

communications rate *use* bit rate or Byte rate

computer execution rate: IPS (instructions per second)

computer speed : FLOPS

Used for floating point operations per second.

conductance : S (siemen)

mho use S

conductivity, electrical *use* electrical conductivity

coulomb per kilogram *see* radiation exposure

critical dimensions *use* size

curie *see* radioactivity

current: A (amp)

Not used for accelerator beam currents.

day *see* time

decibel *see* gain, loss or noise figure

degrees C, F, or K *see* temperature

depth : m (metre)

Measured from surface (liquid or solid) for Earth and all planetary bodies. Measured from the photosphere (optical depth 1) for Sun. For negative values use "altitude".

feet *use* m [m=feet x 0.3048]

yard *use* m [m = yard x 0.9144]

fathom *use* m [m=fathom x 1.8288]

mile *use* m [m=mile x 1609.344]

diameter *see* size

distance : m (metre)

feet *use* m [m=feet x 0.3048]

yard *use* m [m = yard x 0.9144]

fathom *use* m [m=fathom x 1.8288]

mile *use* m [m=mile x 1609.344]

Earth radii *see* geocentric distance

efficiency : percent (%)

Not used for quantum efficiency.

electric current *use* current

electric potential *use* voltage

electrical conductivity : S/m (siemens per metre)

mho/m *use* S/m

ohm m⁻¹ *use* S/m

electrical resistivity : ohm (ohm metre)

electron volt energy : eV (electron volt)

Used:

a) for atomic and molecular parameters,

b) for high energy cosmic radiation,

c) in nuclear and particle physics for device parameters, i.e. accelerators, beam transport equipment, etc.

Not used:

a) for projectile energies,

b) for level energies,

c) for particle masses.

emf *use* voltage

energy : J (joule)

cal *use* J [J = cal * 4.1868]

kWh *use* J [J = kWh * 3600000]

energy, electron volts *use* electron volt energy

eV energy *use* electron volt energy

farad *see* capacitance

fathom *see* depth

fahrenheit *see* temperature

feature size *use* size

feet *see* altitude, depth, distance or size

floating point operations per second *see* computer speed

flops *see* computer speed

frequency : Hz (hertz)

Used for all waves: electromagnetic, acoustic, gravitational, etc.

gain : dB (decibel)

For negative values use loss.

galactic distance : pc (parsec)

Used for interstellar distances measured from solar system, not from galactic centre (not galactocentric distances), and for intergalactic distances. Within the solar system, use heliocentric distance.

ly use pc [$\text{pc} = \text{ly} * 0.3066$]

gauss *see* magnetic flux density

geocentric distance : m (metre)

Used for magnetospheric scale out to about 100 Earth radii. For atmospheric scale use altitude.

AU use m [$\text{m} = \text{AU} * 149597870000$]

Earth radii use m [$\text{m} = \text{Earth radii} * 6378140$]

geological age *use* age

gram *see* mass

gray *see* radiation absorbed dose

heat *use* energy

height *use* size

heliocentric distance : AU (astronomical unit)

For distances beyond the solar system use galactic distance.

solar radii use AU [$\text{AU} = \text{solar radii} * 0.00465424$]

hertz *see* bandwidth or frequency

horsepower *see* power

hour *see* time

inch *see* distance or size

instructions per second *see* computer execution rate

joule *see* energy

joule per kilogram *see* radiation absorbed dose

K *see* memory size or temperature

kayser *see* wavelength

kelvin *see* temperature

kilogram force/m² *see* pressure

kWh *see* energy

length *use* size

light year *see* galactic distance

loss : dB (decibel)

Used for attenuation. For negative values use gain.

magnetic flux density : T (tesla)

1989-

gauss use T [$\text{T} = \text{gauss} * 0.0001$]

Wb/m² use T

mass : kg (kilogram)

1989-

oz use kg [$\text{kg} = \text{oz} * 0.028349$]

lb use kg [$\text{kg} = \text{lb} * 0.45359237$]

ton *use* kg [kg = ton * 1016.05]

tonne *use* kg [kg = tonne * 1000]

memory size : Byte

K *use* Byte [Byte = K * 1024]

metre *see* altitude, depth, distance, geocentric distance, size or wavelength

mho *see* conductance

mho/m *see* electrical conductivity

mile *see* altitude, depth, distance or size

minute *see* time

mm Hg *see* pressure

newtons per square metre *see* pressure

noise figure : dB (decibel)

ohm *see* resistance

ohm metre *see* resistivity

ohm m⁻¹ *see* electrical conductivity

optical loss *use* loss

ounce *see* mass

parsec *see* galactic distance

pascal *see* pressure

percent *see* efficiency

picture size : pixel (picture element)

pound *see* mass

power : W (watt)

hp *use* W [W = hp * 745.7]

power, apparent *use* apparent power

power, reactive *use* reactive power

pressure : Pa (pascal)

Not used for partial pressure.

atm *use* Pa [Pa = atm * 101325]

bar *use* Pa [Pa = bar * 100000]

cm Hg *use* Pa [Pa = cm Hg * 1333.22]

kgf/m² *use* Pa [Pa = kgf/m² * 9.80665]

lbf/in² *use* Pa [Pa = lbf/in² * 6894.76]

mm Hg *use* Pa [Pa = mm Hg * 133.322]

N/m² *use* Pa

psi *use* Pa [Pa = psi * 6894.76]

torr *use* Pa [Pa = torr * 133.322]

printer speed : cps (characters per second)

psi *see* pressure

rad *see* radiation absorbed dose

radiation absorbed dose : Gy (gray)

J/kg *use* Gy

rad *use* Gy [Gy = rad * 0.01]

radiation dose equivalent : Sv (sievert)

rem *use* Sv [Sv = rem * 0.01]

radiation exposure : C/kg (coulomb per kilogramme)

roentgen *use* C/kg [C/kg = roentgen * 0.000258]

radioactivity : Bq (becquerel)

curie *use* Bq [Bq = curie * 37000000000]

radius *use* size

reactive power : VAR (volt-amp (reactive))

Used for power apparatus, equipment, etc. when power ratings or levels are given in VAR.

rem *see* radiation dose equivalent

resistance : W (ohm)

roentgen *see* radiation exposure

sampling rate *use* frequency

second *see* time

siemens *see* conductance

siemens per metre *see* electrical conductivity

sievert *see* radiation dose equivalent

signal to noise ratio *use* noise figure

size : m (metre)

Not used for elementary particle or nuclei size.

inch *use* m [m = inch * 0.0254]

feet *use* m [m = feet * 0.3048]

yard *use* m [m = yard * 0.9144]

size, memory *use* memory size

size, picture *use* picture size

solar mass *see* stellar mass

solar radii *see* heliocentric distance

speed *use* velocity

stellar mass : Msol (solar mass)

Used for stars only, i.e. not nebulae, star clusters, galaxies, etc.

storage capacity : bit

temperature : K (kelvin)

Used for absolute temperatures and not temperature differences.

degC *use* K [K = degC + 273.15]

C *use* K [K = C + 273.15]

degF *use* K [K = (degF + 459.67) * 0.5555556]

F *use* K [K = (F + 459.67) * 0.5555556]

degK *use* K

tesla *see* magnetic flux density

thickness *use* size

time : s (second)

minute *use* s [s = minute * 60]

hour *use* s [s = hour * 3600]

day *use* s [s = day * 86400]

week *use* s [s = week * 604800]

year *use* s [s = year * 31557600]

ton *see* mass

tonne *see* mass

torr *see* pressure

transmission speed *use* bit rate or Byte rate

transconductance *use* conductance (if units are in S) or electrical conductivity (if units are in S/length)

velocity : m/s (metres per second)

1989-

volt-amp *see* apparent power

volt-amp (reactive) *see* reactive power

voltage : V (volt)

watt *see* power

wave number *see* wavelength

wavelength : m (metre)

Used for all waves: electromagnetic, acoustic, gravitational, etc.

Used for fibre optical communications and related devices/equipment including the wavelengths of optical emitters and detectors.

If a wavelength is given as a wave number either in cm-1 or in kayser, then use the following to convert to wavelength in m:

*cm-1 use m [m = (1/cm-1) * 0.01]*

*kayser use m [m = (1/kayser) * 0.01]*

webers per square metre *see* magnetic flux density

week *see* time

width *use* size

word length : bit

Not used for ADC resolution.

yard *see* altitude, depth, distance or size

year *see* age or time

2.1 Multiplying Prefixes

Prefix	Abbrev.	Factor	Prefix	Abbrev.	Factor
Exa	E	10^{18}	deci	d	10^{-01}
Peta	P	10^{15}	centi	c	10^{-02}
Tera	T	10^{12}	milli	m	10^{-03}
Giga	G	10^{09}	micro	mu	10^{-06}
mega	M	10^{06}	nano	n	10^{-09}
kilo	k	10^{03}	pico	p	10^{-12}
hecto	h	10^{02}	femto	f	10^{-15}
deca	da	10^{01}	atto	a	10^{-18}

The exception to this rule is in the area of computer memories, where their physical and logical layout means that their sizes are powers of 2. Thus, in specifications of memory size or storage capacity, the multiplying prefixes 'K', 'M' and 'G' have non-standard meanings as follows:

Prefix	Multiplying Factor	As a power of 2
K	1,024	2^{10}
M	1,048,576	2^{20}
G	1,073,741,824	2^{30}

Thus, a 64 KB memory will be numerically indexed as:

memory size 6.6E+04 Bytes

because 6.6E+04 is 65536 to two significant figures.

3.0 Inspec Numerical Data Indexing Search Guide

3.1 Table of Vendor Search Examples

Inspec Vendor	Inspec Database including Numerical Data Indexing	Numerical Data Indexing Search Field	Numerical Data Indexing Search Examples
DataStar	INSP (1987 ->) INZZ (1969 ->)	<i>Property or Unit</i> use .NI. <i>Values/Ranges</i> use .NI.	WAVELENGTH.NI. M.NI. MAG=09 WITH HZ.NI. FREQUENCY WITH E06.NI. FREQUENCY WITH MAG=05.NI. <i>With DataStar Classic only:</i> WAVELENGTH WITH '1.06' ADJ E-05.NI. WAVELENGTH WITH '1.06E02'.NI.
Dialog	2 (1898 ->) 3 (1969 ->) 4 (1983 ->)	<i>Property</i> use NI= <i>Values/Ranges</i> use individual fields*	S NI=WAVELENGTH S TE=3.73E2 S TE=3.73E2:5.33E2 S TE<5.33E02 (also >=, <=, >) S LO=3.73E2(S)HI=5.33E2(S)NI=TEMPERATURE

Ebsco	Inspec	<p><i>Property or Unit</i> use NI</p> <p><i>Values/Ranges</i> use NI</p>	<p>NI TEMPERATURE</p> <p>NI 3.73E02 K</p> <p><i>Note: Only searches for exact value or exact range.</i></p>
EINS GEM	8	<p><i>Property or Unit</i> use /PHP</p> <p><i>Values/Ranges</i> use individual fields*</p>	<p>WAVELENGTH/PHP</p> <p><i>Note: Online thesaurus available for /PHP, use e.g. E FREQUENCY/PHP.</i></p> <p>S 3.73E02/TEMP S 3.73E+02-5.33E+02/TEMP S TEMP>3.73E-2 (also >=, <=, <)</p>
Engineering Village	Inspec	<p><i>Property or Unit</i> use WN NI</p> <p><i>Values/Ranges</i> use WN NI</p>	<p>TEMPERATURE WN NI K WN NI</p> <p>"3.73E+02 K" WN NI {3.73E-02 K} WN NI "3.73E+02 5.33E+02 K" WN NI</p> <p><i>Note: Only searches for exact value or exact range. Unit and + or – must be included. Only available in Expert Search.</i></p>

FIZ Technik	INSP (1996 ->) IN95 (1969 to 1995) INSZ (1969 ->)	<i>Property or Unit</i> use .NI <i>Values/Ranges</i> use individual fields*	FREQUENCY.NI HZ.NI TEM WITH 3.73E02.NI (TEM SAME 3.73E02 SAME TO SAME 5.23E02).NI. NI WL 3.73E02,5.33E02
Inspec OnDisc (Inspec Web)	Inspec	<i>Values/Ranges</i> use individual fields*	R2{7.0E-07} – to include searched value where indexed in a range R2{"7.0E-07"} – to search exact values only R2{7.0E-07~7.0E-08} M3{>1.0E05} (also >=, <=, <, and " " may also be used with <, >, etc as above)
ISI Web of Science	Inspec	<i>Values/Ranges</i> use individual fields*	TE=3.73E+02 TE>=3.73E02 TE<=5.33E2 TE>373

<p>OCLC FirstSearch</p>	<p>Inspec</p>	<p><i>Property or Unit</i> use NI:</p> <p><i>Values/Ranges</i> use NI:</p>	<p>NI: TEMPERATURE NI: K</p> <p>NI: 3.73E02 NI: 3.73E+02 w to w 4.73E+02 w K NI: WAVELENGTH 7.0E-07</p> <p><i>Note: Only searches for exact value or exact range. Preceding zeros, and for negative exponentials -, must be included. Only in available Advanced or Expert Search.</i></p>
<p>Ovid</p>	<p>Inspec</p>	<p><i>Property or Unit</i> use ND</p> <p><i>Values/Ranges</i> use ND</p>	<p>TEMPERATURE.ND K.ND</p> <p>"3.73E+02".ND. "TEMPERATURE 3.73E+02 K".ND. "TEMPERATURE 3.73E+02 TO 5.33E+02".ND. "TEMPERATURE 3.73E+02".ND. "3.73E+02 K".ND.</p> <p><i>Note: Only searches for exact value or exact range. Unit and + or - and preceding zeros must be included.</i></p>

Questel	Inspec	<p><i>Property or Unit</i> use NM</p> <p><i>Values/Ranges</i> use individual fields*</p>	<p>/NM FREQUENCY</p> <p>/FREQ 3.0E09</p> <p>/SIZE E03</p> <p>/TEMP 3+E02</p> <p>/TIM 1.0E03 S 2.0E04</p> <p>/SIZE E-10 S E-11</p>
SilverPlatter WebSPIRS	Inspec	<p><i>Property or Unit</i> use IN NI</p> <p><i>Values/Ranges</i> use IN NI</p>	<p>K IN NI</p> <p>TEMPERATURE IN NI</p> <p>3.73 E02 K IN NI</p> <p>TEMPERATURE NEAR 3.73 E02 IN NI</p> <p>7.0 E-07 M IN NI</p> <p>WAVELENGTH NEAR 7.0 E-07 IN NI</p> <p>VOLTAGE 4.5 E00 TO 5.5 E00 V IN NI</p> <p><i>Note: Only searches for exact value or exact range. Preceding zeros, and for negative exponentials –, must be included.</i></p>

STN	Inspec	<i>Property or Unit</i> use /PHP <i>Values/Ranges</i> use individual fields*	WAVELENGTH/PHP <i>Note: Online thesaurus available for /PHP, use e.g. E FREQUENCY/PHP. Unit can be reset using SET UNIT.</i> S 3.73E02/TEMP S 3.73E2-5.33E2/TEMP S TEMP>3.73E+02 (also >=, <=, <)
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* For individual numerical indexing search fields, see the Table below, or the individual Vendor data sheet for Inspec.

3.2 Table of Vendor-Specific Numerical Data Indexing Search Fields

		Search Field Label Per Vendor						
Quantity	Unit	Dialog	EINS GEM	FIZ Technik	Inspec Web	ISI Web of Knowledge	Questel	STN
age	yr	AG=	/AGE	AGE.NI	N1{}	AG=	/AGE	/AGE
altitude	m	AL=	/ALT	ALT.NI	N2{}	AL=	/ALT	/ALT
apparent power	VA	AP=	/POA	POA.NI	N3{}	AP=	/APOW	/POA
bandwidth	Hz	BW=	/BAW	BAW.NI	N4{}	BW=	/BAND	/BAW
bit rate	bit/s	BI=	/BIR	BIR.NI	N5{}	BI=	/BIT	/BIR
Byte rate	Byte/s	BY=	/BYR	BYR.NI	N6{}	BY=	/BYT	/BYR
capacitance	F	CA=	/CAP	CAP.NI	N7{}	CA=	/CAP	/CAP
computer execution rate	IPS	CE=	/COE	COE.NI	N8{}	CE=	/CER	/COE
computer speed	FLOPS	CM=	/COS	COS.NI	N9{}	CM=	/CSP	/COS
conductance	S	CD=	/CON	CON.NI	M1{}	CD=	/COND	/CON
current	A	CU=	/CUR	CUR.NI	M2{}	CU=	/CUR	/CUR
depth	m	DP=	/DEP	DEP.NI	M3{}	DP=	/DEP	/DEP

		Search Field Label Per Vendor						
Quantity	Unit	Dialog	EINS GEM	FIZ Technik	Inspec Web	ISI Web of Knowledge	Questel	STN
distance	m	DI=	/DIS	DIS.NI	M4{}	DI=	/DIST	/DIS
efficiency	percent	EF=	/EFF	EFF.NI	M5{}	EF=	/EFFI	/EFF
electrical conductivity	S/m	EL=	/ECND	ECN.NI	M6{}	EL=	/ECON	/ECND
electrical resistivity	ohm	ER=	/REE	REE.NI	Q3{}	ER=	/ERES	/EREST
electron volt energy	eV	EV=	/EEV	EEV.NI	M8{}	EV=	/EVOL	/EEV
energy	J	EN=	/ENE	ENE.NI	M9{}	EN=	/ENER	/ENE
frequency	Hz	FR=	/FRE	FRE.NI	O1{}	FR=	/FREQ	/FRE
gain	dB	GA=	/GAI	GAI.NI	O2{}	GA=	/GAIN	/GAI
galactic distance	pc	GD=	/GAD	GAD.NI	O3{}	GD=	/GALD	/GAD
geocentric distance	m	GE=	/GED	GED.NI	O4{}	GE=	/GEOD	/GED
heliocentric distance	AU	HD=	/HED	HED.NI	O5{}	HD=	/HELD	/HED
loss	dB	LS=	/LOS	LOS.NI	O6{}	LS=	/LOSS	/LOS
magnetic	T	MD=	/MFD	MAG.NI	O7{}	MD=	/MAGD	/MFD

		Search Field Label Per Vendor						
Quantity	Unit	Dialog	EINS GEM	FIZ Technik	Inspec Web	ISI Web of Knowledge	Questel	STN
flux density								
mass	kg	MA=	/MAS	MAS.NI	O8{}	MA=	/MASS	/M
memory size	Byte	MS=	/MES	MES.NI	O9{}	MS=	/MES	/MES
noise figure	dB	NF=	/NOF	NOF.NI	P1{}	NF=	/NOIS	/NOF
picture size	pixel	PX=	/PIS	PIS.NI	P2{}	PX=	/PIX	/PIS
power	W	PO=	/POW	POW.NI	P3{}	PO=	/POWR	/POW
pressure	Pa	PR=	/PRES	PRE.NI	P4{}	PR=	/PRES	/PRES
printer speed	cps	PS=	/PRS	PRS.NI	P5{}	PS=	/PRNT	/PRSP
radiation absorbed dose	Gy	RA=	/RADA	RDA.NI	P6{}	RA=	/RADA	/RADA
radiation dose equivalent	Sv	RD=	/RADE	RDE.NI	P7{}	RD=	/RADE	/RADE
radiation exposure	C/kg	RX=	/RAE	RAE.NI	P8{}	RX=	/RADX	/RAE
radioactivity	Bq	RY=	/RAD	RAD.NI	P9{}	RY=	/RAD	/RAD
reactive	VAr	RP=	/POR	POR.NI	Q1{}	RP=	/REAC	/POR

		Search Field Label Per Vendor						
Quantity	Unit	Dialog	EINS GEM	FIZ Technik	Inspec Web	ISI Web of Knowledge	Questel	STN
power								
resistance	ohm	RE=	/RES	RES.NI	Q2{}	RE=	/RES	/RES
size	m	SI=	/SIZ	SIZ.NI	Q4{}	SI=	/SIZE	/SIZ
stellar mass	Msol	SM=	/STM	STM.NI	Q5{}	SM=	/STEL	/STM
storage capacity	bit	SR=	/SCA	SCA.NI	Q6{}	SR=	/STOR	/SCA
temperature	K	TE=	/TEMP	TEM.NI	Q7{}	TE=	/TEMP	/TEMP
time	s	TM=	/TIM	TIM.NI	Q8{}	TM=	/TIM	/TIM
velocity	m/s	VE=	/VEL	VEL.NI	Q9{}	VE=	/VEL	/VEL
voltage	V	VO=	/VOLT	VOL.NI	R1{}	VO=	/VOLT	/VOLT
wavelength	m	WA=	/WVL	WAV.NI	R2{}	WA=	/WAVE	/WVL
word length	bit	WL=	/WOL	WOL.NI	R3{}	WL=	/WORD	/WOL