

ND 1100 QUADRA-CHEK

– the Digital Readouts for Simple Positioning Tasks

The ND 1100 QUADRA-CHEK digital readouts can support up to four axes. They are mainly suited to positioning tasks on positioning equipment and measuring fixtures, as well as for retrofitting on measuring machines for data acquisition and relaying to a PC.

Description

The ND 1100 QUADRA-CHEK digital readouts have a monochrome flat-panel screen for displayed values, dialogs, inputs and soft keys. The robust, diecast aluminum enclosure meets the demands of metrology and production control.

Functions

The logical placement of the function keys and soft keys permits innovative operator guidance, which supports you when using the diverse functions.

Along with the usual functions of a digital readout, such as zeroing and setting of reference values, the ND 1100 QUADRA-CHEK units have numerous more useful functions:

- Each axis can be configured for linear or angular display
- Minimum/maximum value storage
- Simple switching between counting directions
- Continuous data output via internal clock, or upon probing

Data interfaces

You use the data interfaces to output measured points as well as to save settings and compensation values. The ND 1100 has an RS-232-C/V.24 serial interface for communication with a PC. You can connect printers or memory media directly to the USB port.

Display format

Depending on the type of encoder connected, you can define linear or angular display individually for each axis.

X	14.5653		
Y	-8.2776		
Z	20°30'50"		
Q	324°55'30"		
Abs	MM	Menu	Preset

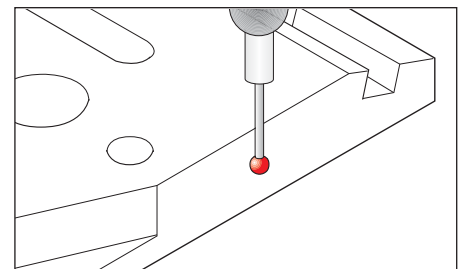
Minimum/maximum value storage

The ND 1100 is capable of minimum/maximum value storage in any selectable axis. The largest and smallest measured values of a measurement series, as well as the difference, are stored, and can be output via the data interface. This function is especially advantageous during concentricity testing.

MinMax	MAX	14.7653		
X	MIN	14.5653		
X	RANGE	0.2000		
Both	MAX	MIN	New	Preset

Touch-probe connection

Touch probes (e. g. from HEIDENHAIN or Renishaw) can be connected to the ND 1100. The digital readout automatically reads the current position value during probing, and also takes the radius of the stylus into account.



Output format of measured values

Since the universal output formats are used by various manufacturers of measuring machines, the ND 1100 can easily be retrofitted as a data logger to manually operated measuring machines. The measured values are captured by the ND, and then relayed to a connected PC for further processing.

X	12.3553 mm
Y	-8.2006 mm
Z	20.30.50 dms
Q	326.37.30 dms



	ND 1102	ND 1103	ND 1104
Axes	2	3	4
Encoder inputs*	~ 1 V _{PP} or □□TTL (other interfaces upon request)		
Subdivision factor	10-fold (only for 1 V _{PP})		
Display step¹⁾	Adjustable, max. 7 digits Linear axis: 1 mm to 0.0001 mm Angular axis: 1° to 0.0001° (00° 00' 01")		
Display	5.7" monochrome flat-panel display for position values, dialogs and inputs, and soft keys		
Functions	<ul style="list-style-type: none"> • Measurement series with MIN/MAX display • Difference between minimum and maximum (range) • Scaling factor 		
Error compensation	<ul style="list-style-type: none"> • Linear, and segmented linear over up to 300 points • Squareness calibration 		
Data interface	<ul style="list-style-type: none"> • RS-232-C/V.24 • USB (type A) 		
Touch-probe connection*	HEIDENHAIN touch probe or Renishaw touch probe		
Other connections	Foot switch for two functions, or remote keypad		
Accessories	Foot switch, remote keypad, protective cover		
Main power input	100 Vac to 240 Vac (-15 % to +10 %), 43 Hz to 63 Hz		
Operating temperature	0 °C to 45 °C		
Protection EN 60529	IP 00, front panel IP 40		
Mounting*	Tilting base or mounting base		
Weight	ND with tilting base: approx. 4.8 kg; ND with mounting base: approx. 2 kg		

* Please select when ordering

¹⁾ Depends on the signal period of the connected encoder as well as the subdivision factor

Representante oficial de:



HEIDENHAIN

[Argentina – Bolivia – Chile – Colombia - Costa Rica – Ecuador - El Salvador –
Guatemala – Honduras – Nicaragua – Panamá – Paraguay – Perú -
República Dominicana – Uruguay – Venezuela.]



Calle 49 N° 5764 - Villa Ballester (B1653AOX) - Prov. de Buenos Aires - ARGENTINA
Tel: (+54 11) 4768-4242 / Fax: (+54 11) 4849-1212
Mail: ventas@nakase.com.ar / Web: www.nakase.com.ar

