RENISHAW®
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Advanced Diagnostic Tool ADTi-100 and ADT View software – Quick-start guide

1 System compatibility

► QUANTiC™
► VIONiC™
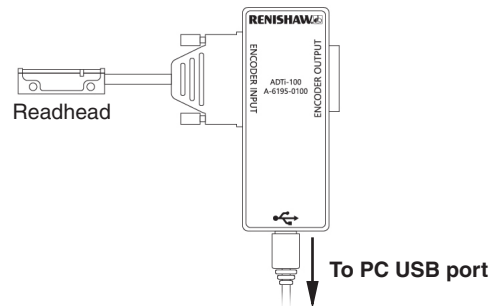► ATOM DX™

2 System requirements

► PC, laptop or tablet with administration rights*
► USB 1.1 A to mini B cable, A-9572-0098
► ADT View software **www.renishaw.com/adt**
► ADTi-100

► Adaptor cables for readheads with alternative pin-outs†
► QUANTiC analogue output only:
  • Termination tool (120 ohms), A-6195-2132
  • Adaptor cables, A-6637-1540 (pair of 15-way D-type male to female cables)
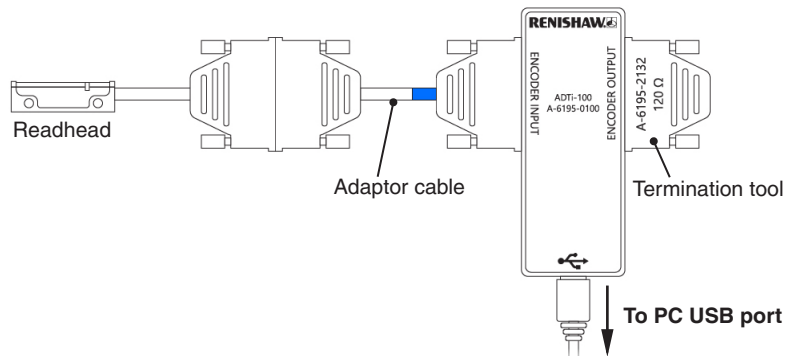
3 System connection†

Tethered

The ADTi-100 is connected to the readhead and powered via the PC's USB port.
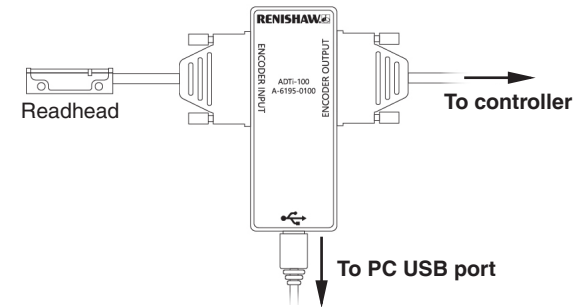
QUANTiC (digital output), VIONiC and ATOM DX:

Readhead
To PC USB port

QUANTiC (analogue output):

Readhead
Adaptor cable
Termination tool
To PC USB port

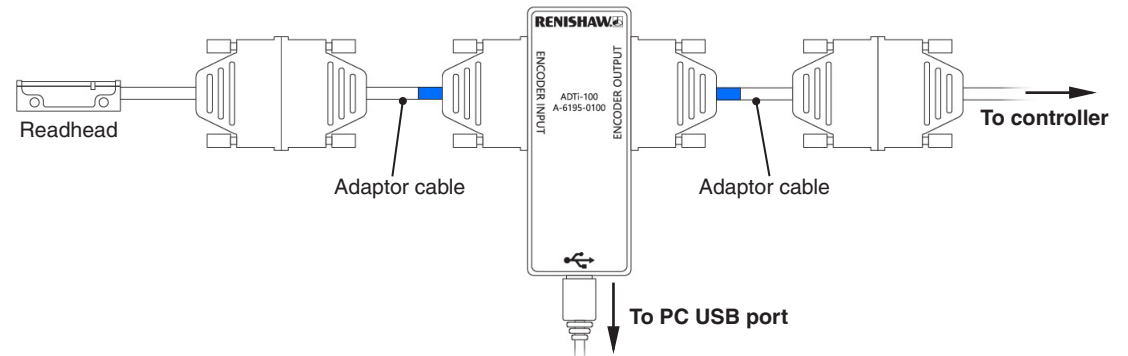### In-line

The ADTi-100 is connected between the readhead and the controller as part of the control loop.

QUANTiC (digital output), VIONiC and ATOM DX:

Readhead
To controller
To PC USB port

QUANTiC (analogue output):

Readhead
Adaptor cable
Adaptor cable
To controller
To PC USB port

* Minimum requirements: • Windows® operating systems (×86 or ×64): 7 SP1, 10 • Quad-core 1.44-1.92 GHz processor • 2 GB DDR3 RAM • 5 GB disk space (including 2.5 GB for.NET) • 500 MHz GPU capable of 1024 × 600 resolution or higher
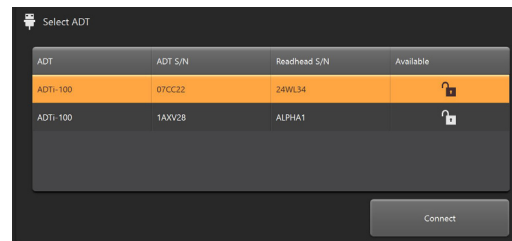† Connections are shown for standard 15-way D-type pin-out. For readheads with alternative pin-outs or connectors adaptor cables are required. Contact your local Renishaw representative for more information.

![Renishaw logo - apply innovation™]
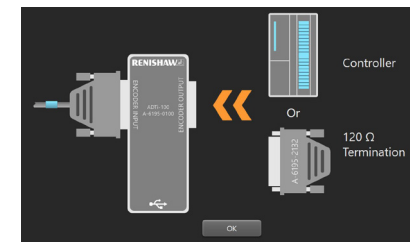
4 Software operation

► Connect the ADT

► Select chosen system

ADT	ADT S/N	Readhead S/N	Available
ADTi-100	07CC22	24WL34	🔒
ADTi-100	1AXV28	ALPHA1	🔒

Select ADT

Connect

► QUANTiC analogue variant only: Termination reminder

Controller

Or

120 Ω Termination

OK

Signal strength vs. position along axis

► Signal strength vs. position along axis
► Reference mark and limit* positions
► Max and min signal strength position

► Configuration of the readhead
► Restore factory defaults

Connected ADT

Select another ADT

Connected readhead

Signal amplitude

Switch between linear or rotary scale

Screen selection

QUANTiC – 1A0V41

1AXV28   07CC22

100 %

50%   70%   100%

Z

Settings

► Internal sine and cosine signals displayed as a Lissajous Figure

Reference mark phasing

Pitch* and calibration indicator

PITCH ADJUSTMENT
Pitch OK

Calibrate

► Readhead velocity vs. time
► Zoom, pan and cursor features

Initiate system calibration

Switch AGC on/off

AGC

PQ P

Status of limits*

Alarms/warnings and open log file

+ 0.083 405 000

► Linear or rotary Digital Read Out (DRO)

* Pitch and limits are not available with some readheads