

ACU-RITE®

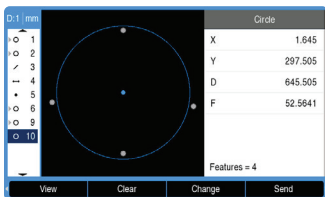
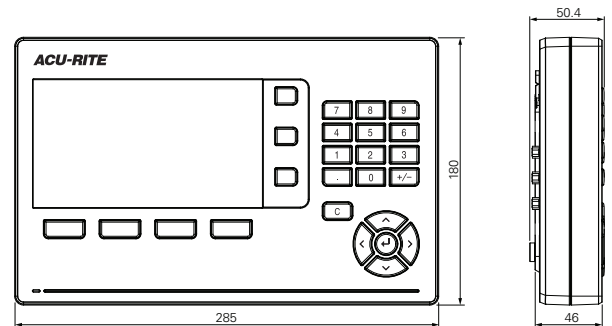
DRO203Q

Powered by Quadra-Chek



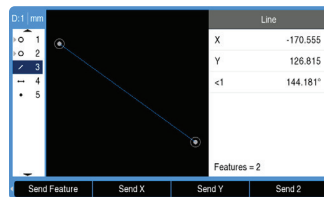
2-D Geometric Digital Readout

The DRO203Q incorporates 7-inch color display technology with versatile software—perfect for optical comparators and measuring microscopes. Measure and export 2-D feature data quickly over a USB-C serial connection. Familiar and intuitive interface. Designed and manufactured in the USA, ACU-RITE readouts are built to be at home on the shop floor or in the lab.



Metrology-specific functions

Measuring, creating, and constructing of the following feature types: point, line, circle, skew, distance and angle. Features graphic evaluation screen.



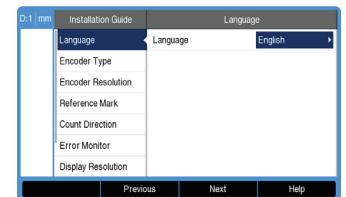
Data output over USB-C

Simple to configure, easy to use. Download our USB driver here under Additional Software. Contextual Send options enable streamlined data output.



Dynamic zoom

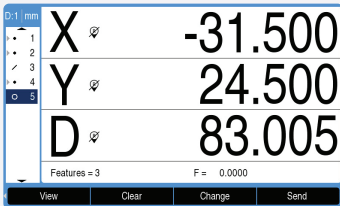
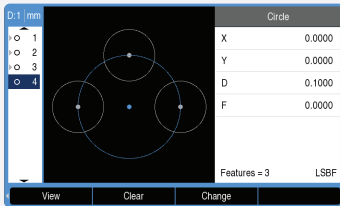
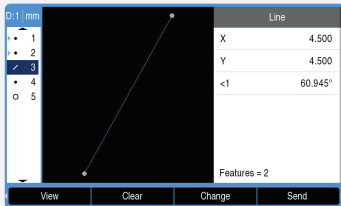
The currently moving axis can be geographically highlighted. In “dynamic zoom” mode, the position value is zoomed to its maximum size depending on the number of digits. This greatly improves legibility—especially from a great distance.



Installation guide

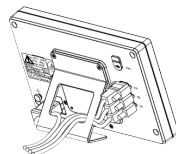
When you switch on the digital readout for the first time, the DRO203Q supports you with an installation guide. You are led step by step through the most important settings until the device is ready for operation.



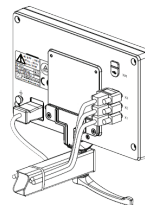
	DRO203Q Technical Data
Display	<ul style="list-style-type: none"> • 3 Axes (X, Y, Z or Q) • 7-inch color wide screen (15:9)
Common Functions	<ul style="list-style-type: none"> • Optimized for use with Optical Comparators and Measuring Microscope systems • Datum 1/2 switching • Contextual Help Function • In/mm conversion • Installation Setup Walkthrough
Metrology Specific Functions	<ul style="list-style-type: none"> • Measuring, creating, and constructing of the following feature types: <ul style="list-style-type: none"> ▪ Point ▪ Skew ▪ Line ▪ Distance ▪ Circle ▪ Angle • Feature graphic evaluation screen • Simple serial data output over USB-C connection to PC. Driver available on ACU-RITE website for download. <div style="display: flex; justify-content: space-around; align-items: flex-end;">    </div>
Accessories	Single-Position Stand, Multiposition Holder, Mounting Frame, Protective Cover (1197275-01)
Data Interface	USB 2.0 type C <ul style="list-style-type: none"> • For Output of Feature Data and Current Position to a USB Stick or PC • For Input of Parameters, Remote Control of Keys and Commands
Protection	IP 40, Front Panel IP 54
Construction	Die-Cast Metal
Weight	~1.9 kg
Electrical Requirements	AC 100 V to 240 V ($\pm 10\%$), 50 Hz to 60 Hz ($\pm 5\%$), $\leq 33\text{ W}$
Operating Temperature	0° to 45° C (32° to 113° F)
Storage Temperature	-20° to 70° C (-4° to 158° F)

Mounting

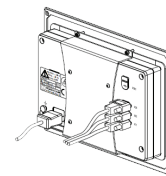
The DRO203Q can be mounted on the machine with the single-position stand, multiposition holder or the mounting frame.



Single-Position
(1197273-01)



Multiposition Holder
(1197273-02)



Mounting Frame
(1197274-01)

With more than one million in use today, ACU-RITE® Precision Glass Scales withstand the elements of even the harshest machine shop environments. Built to resist changes in size, shape, or density due to temperature and humidity variations, this stability provides exceptional accuracy, resulting in tighter workpiece tolerances.

ACU-RITE® scales are available in travel lengths from 1"-120" and in resolutions from 0.5 μm (.00002") to 5 μm (.0002").



Certifications

ISO-9001, UL, CSA, CE

Rev. 05/23 • ACU-RITE® is a registered trademark of HEIDENHAIN CORPORATION

ACU-RITE®

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