Digital Touchscreen Readout DRO MX200 / Nikon

A simple and innovative readout solution for today's metrology for all NIKON*
Measuring Microscopes & Profile Projectors

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Ideal for Nikon Optical Measuring Microscopes, Nikon profile projectors, optical comparators or any Metrology device requiring encoder supported measurement (Acu-Rite, Heidenhain, Isoma, M. Aubert, etc.).

⇨ **Supporting Keypad and Touchscreen control.**

Clean, Intuitive Design
Combining a familiar user experience (like the old and end of life QC200) with current touchscreen conventions, the MX200 readout can quickly be integrated into your process while being accessible to a wide range of users.

Optical Edge and Crosshair Probes
Available for both Optical Edge and Crosshair only measurement systems the Mx200 probing options are simple and intuitive. The exclusive EdgeLogic™ feature enables gesture driven control of start and end measurement commands, alleviating the need to interact with the DRO directly. Just cross the same edge twice to start and end measurements!
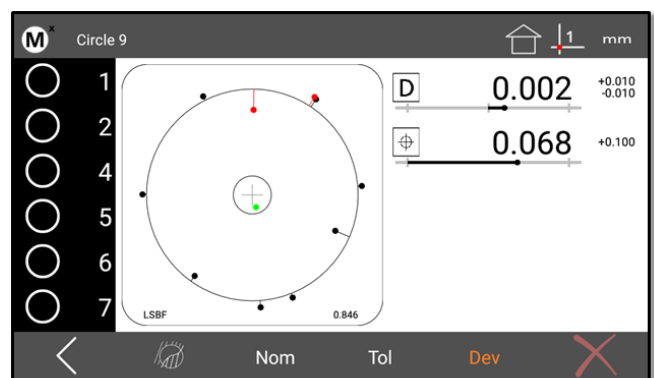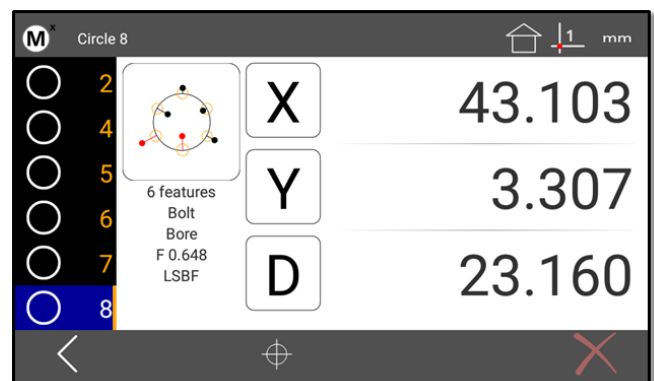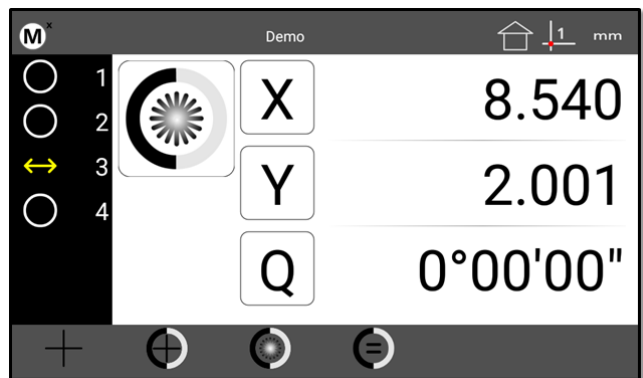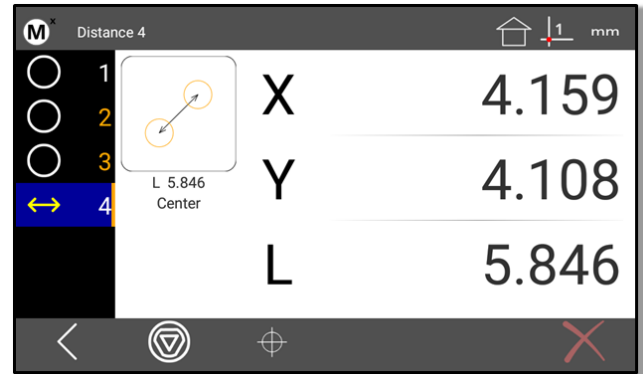
Features and Design/ Constructions
Supporting industry standard feature measurement and popular design types. Toggle feature design sub-types quickly with the change feature type - button.
- Mid/Center Point
- End Point
- Tangent Line
- Angle Compliments
- Gage Circle/Line
- Intersections
- Bolt Circle
- Farthest Distance
- Perpendicular Lines
- Shortest Distance

Geometric Tolerancing and Part Programming
Apply popular geometric tolerance controls to measured and constructed features using the industry leading tolerance system. Apply nominal and tolerance limits quickly, and view results accurately, in the large and easy to read data views.

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Record inspection routines for simple playback of measurements, tolerance controls, and data handling and printing steps.

Report, Print, and Export
Choose from one of three report formats; CSV, Standard, or Tolerance. Report contents can include a report title, time and date stamps, and all feature measurement result data. Reports can be printed as hard copies to standard Windows compatible printers, or exported as PDF or CSV data files.
Export choices include:

- Paper Printer(USB, Wifi, Bluetooth)
- Save to file(USB)
- RS232 Output

Support for All Current "Industry Standard" Software Stage Calibration Methodologies
Robust and reliable machine calibration can be achieved using popular machine correction methods including Linear Error Correction(LEC), Segmented Linear Correction(SLEC), Non-Linear Error Correction (NLEC), and squareness correction.

Robust and shop hardened digital readout
A sealed rubber keypad and durable powder coated enclosure provide lasting performance and trouble free operation in a variety of shop and laboratory conditions.
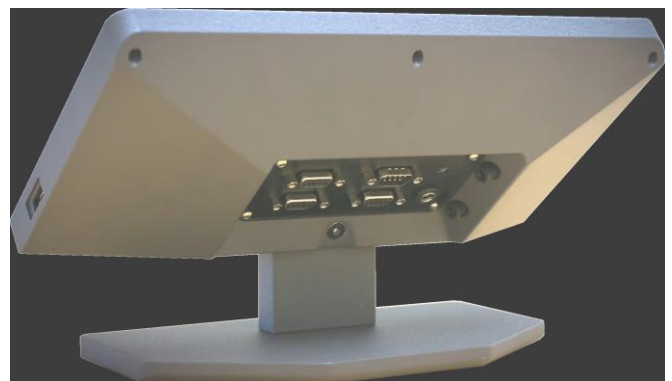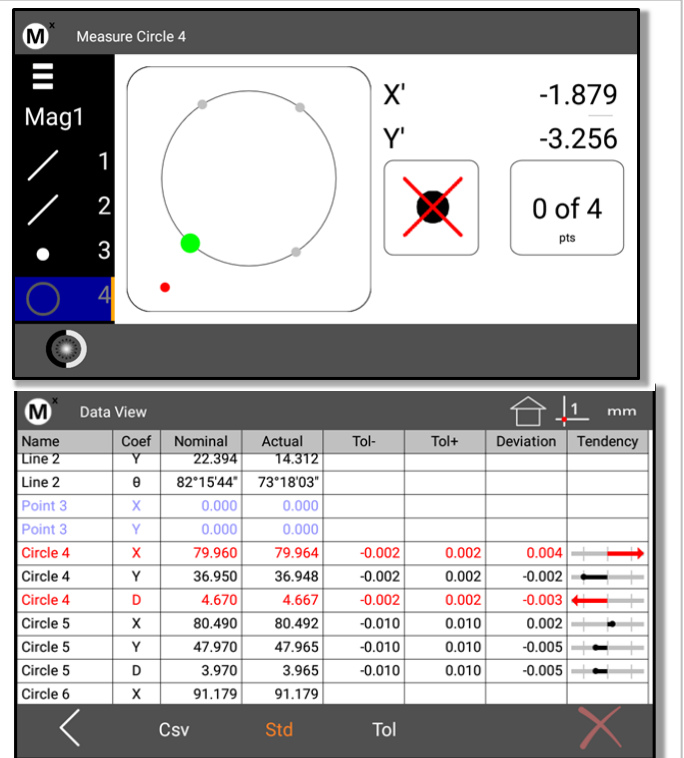
Measuring Machine Integration
Ask your Ryf representative about the wide variety of encoder interface technologies and other hardware supported in the MX200 Digital Readout. See below the Swiss Standard configuration we have including the Ryf SAP Numbers.

Ryf kits (Order numbers includes the base plate)

- FHM-500018.1 = Nikon x-y
- FHM-500016.1 = Nikon x-y-z
- FHM-500009.1 = AR x-y*
- FHM-500010.1 = AR x-y-z*
- FHM-500210 = cable for the new Nikon stage series (starting from the 100x100mm / 4"x4")

(*other brands than Nikon= Acu-Rite / Heidenhain, Aubert, Isoma, Ryeco, Mitutoyo, etc.) September 2019 Ryf Ltd.

Name	Coef	Nominal	Actual	Tol-	Tol+	Deviation	Tendency
Line 2	Y	22.394	14.312				
Line 2	θ	82°15'44"	73°18'03"				
Point 3	X	0.000	0.000				
Point 3	Y	0.000	0.000				
Circle 4	X	79.960	79.964	-0.002	0.002	0.004	
Circle 4	Y	36.950	36.948	-0.002	0.002	-0.002	
Circle 4	D	4.670	4.667	-0.002	0.002	-0.003	
Circle 5	X	80.490	80.492	-0.010	0.010	0.002	
Circle 5	Y	47.970	47.965	-0.010	0.010	-0.005	
Circle 5	D	3.970	3.965	-0.010	0.010	-0.005	
Circle 6	X	91.179	91.179				

Csv   Std   Tol

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Making quality visible
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MX200 Specification:

Display: 7" Color 1024 X 600 LCD, with an LED backlit capacitive touch screen.

Power: Power supply(included): 100-240VAC, 50/60Hz, 0.8A.
Power Input to Mx200: 12V.

Agency Approvals: CE

DRO Dimensions: 286mm wide x 51mm deep x 162 mm high

DRO Baseplate Dimensions: 120mm wide x 125mm deep x
9.5mm high

Mounting Options:
OEM mount: Two Riser Blocks providing up to 4 distinct viewing angles, using (2) M6 threaded holes, spaced 38mm.

RAM ball mount: One Riser Block with 1.5" RAM Ball.

Base plate: Base Plate with two Riser Blocks providing up to 4 distinct viewing angles from the base.

M series features Matrix MX200/M2/M3:

Feature	Mx200 Series	M2 Series	M3 Series
Optical Edge Detection	■	■	■
Video Edge Detection			■
Advanced Probe Group			■
Geometric Functions	■	■	■
Graphic-Based Constructions		■	■
Multi-UCS Datuming			■
Tolerancing	■	■	■
Data Export/Reporting	■	■	■
Part Programming and Playback	■	■	■
User Account Control		■	■
Part View Display		■	■
Feature Annotation		■	■
Video Image Archiving			■
Image Markup			■
Multi-Language Support	■	■	■
XY, XYZ or XYQ Axis Support	■	■	■