



## Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

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### SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

### *InstraView*<sup>SM</sup> REMOTE INSPECTION

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### WE BUY USED EQUIPMENT

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**CONSTRUCTIONS ALLOWED**

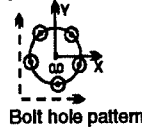
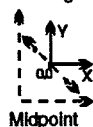
TO GET A POINT.....	PRESS.....	THEN SELECT.....
	POINT key	Line 1 and line 2
	POINT key	The line and the circle
	POINT key	The two circles
	POINT key	The line
	POINT key	The two points
	POINT key	The point and the circle or the point and the line
	POINT key	The point and a distance
	POINT key	The circle
	POINT key	Multiple points
	POINT key	The line and a point
<b>TO GET A LINE.....</b>		
	LINE key	Multiple points along the line.
	LINE key	The line and circle, or line and point
	LINE key	Any two lines
	LINE key	The point and angle
	LINE key	The line and distance
<b>TO GET A CIRCLE.....</b>		
	CIRCLE key	Multiple points around the circle
	CIRCLE key	The point and a distance
	CIRCLE key	The circle and a distance
	CIRCLE key	The circles

**RELATIONSHIPS**

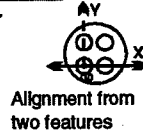
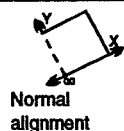
TO DETERMINE A DISTANCE.....	PRESS.....	THEN SELECT.....
	DIST key	Two points, a point and a line, a point and circle, a line and a circle, or two circles
	DIST key	The two circles
	DIST key	The two circles then press the MORE key.
	DIST key	The two circles then press the MORE key twice
	DIST key	The two circles that make up the Annular ring
<b>TO DETERMINE AN ANGLE.....</b>		
	ANGLE	The two lines
	ANGLE	The two lines; the Vertex point will appear in the feature list as a point.

**DATUMING IS QUICK AND EASY:**

Skew sets axis alignment for the part. Can be set from any defined line feature.



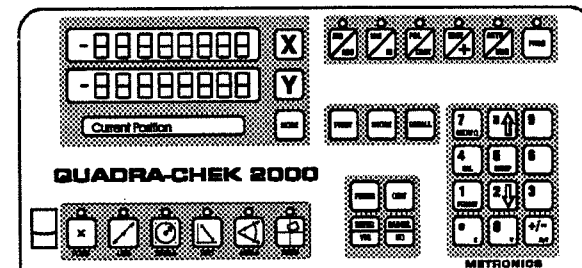
**DATUM POINT DETERMINATION:**



SEE WHAT SIMPLICITY AND VERSATILITY ARE ALL ABOUT....

Among the many features you'll find are:

- Message display window
- All multipoint features, up to 50 points each
- Presets and constructions
- Shaft Checking function
- Linear error correction
- Segmented Linear error correction
- Versatile printouts
- 109 Datum memories
- Storage of entire feature
- Optional add-ons:
  - Optical edge detection
  - Electronic protractor
  - Non-Linear error correction
  - Seven function keypad
  - Footswitch



QUADRA-CHEK 2000

POCKET

REFERENCE GUIDE

METRONICS, INCORPORATED  
BEDFORD, NEW HAMPSHIRE, USA

11A10076  
REV. 3



This function also known as the Shaft Checking function, continuously monitors the probe position until FINISH is pressed. Once pressed, the Min/Max information is placed on the temporary feature list as

Point Measurement  
 Probe ONE point. Press FINISH.  
 Min/Max information is placed on the temporary feature list as  
 "at 1 Min/Max Rg". Pressing the MORE key will display "at 1 Min/Max +Y".

Distance Measurement  
 Probe TWO points. Press FINISH.  
 Note: Relations must be ON to calculate a distance.

Line Measurement  
 1. Press the SETUP (S) key.  
 2. Press ENTER  
 3. Press the down arrow UNTIL "Min/Max" appears.  
 4. Press ENTER. "Min/Max X/Y" appears in the message window.

**MIN/MAX RADIUS FUNCTION**

TECHNIQUES:  
 This function also known as the Shaft Checking function, continuously monitors the probe position until FINISH is pressed. Once pressed, the Min/Max information is placed on the temporary feature list as

Circle Measurement  
 Probe THREE or more points. Press FINISH. Note: There must be at least 180 degrees of arc from the first to the last probed point.

Angle Measurement.  
 Probe a minimum of THREE points and an equal number of points on each leg of the angle. Press FINISH.

Note: Angles and Distances will only be generated if Relations is initiated and probing techniques are correct.

The following program list was generated by recording a simple measurement of the distance between two circles. (i.e., a Slot).

STEPS	EXPLANATION
0. Program Label	Program Label
1. Circle	Probe first circle
2. Finish ?	Wait for FINISH keypress to complete circle
3. Store	Store as feature # 01
4. 0	
5. 1	
6. Enter	
7. Circle	Probe second circle
8. Finish ?	Wait for FINISH keypress to complete circle
9. Store	Store as feature # 02
10. 0	
11. 2	
12. Enter	
13. Distance	Construct distance
14. Recall	Recall the first circle
15. 0	
16. 1	
17. Enter	Automatically selects feature #01
18. Enter	Selects feature #02.
19. Finish	Finish distance construction
20. Store	Store as feature #03.
21. 0	
22. 3	
23. Enter	End Program
24. End Program	Program completed.

**MEASURE MAGIC PROBING**

This function automatically creates the correct geometric features simply by entering points. By following a few simple rules and probing techniques, measuring a part will become so fast and easy you'll probably want to use it most of the time.

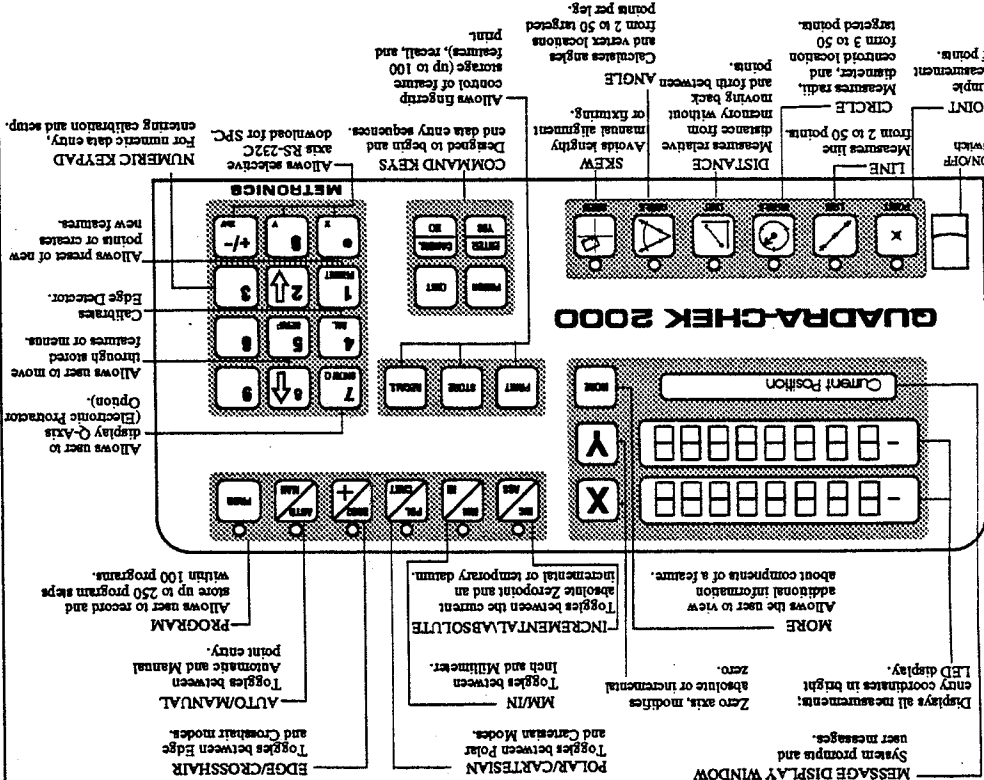
MEASURE MAGIC  
 This function automatically creates the correct geometric features simply by entering points. By following a few simple rules and probing techniques, measuring a part will become so fast and easy you'll probably want to use it most of the time.

SINGULAR MODE  
 1. Press the SETUP (S) key. Enter Setup? appears in the message window.  
 2. Press ENTER. Clear appears in the message window.  
 3. Press the DOWN ARROW once. Measure Magic? appears in the message window.  
 4. Press ENTER. Probe Feature appears in the message window and the 5 measurement function keys will be lit.

Now probe points on any geometric feature pressing the FINISH key after completing the measurement.

PRINT PROGRAMS  
 Downloads programs through RS-232 port. Configures RS-232 download parameters. Sets printout format 32, 40, or 80 column. RS-232 PRINT SETTINGS  
 Downloads setup parameters. TEST  
 Independently runs diagnostic testing. Sets display resolution. Sets units for inch or millimeter. FLASH DELAY#  
 Sets duration for which messages are displayed.

AXIS DIRECTIONS  
 Sets X, Y, and Z axis directions. Dealer setup parameters; Password required. SUPERVISOR  
 Selects English, French, German, Spanish, or Italian. LANGUAGES



**SETUP MENU DESCRIPTION**

1. CLEAR  
Clears features, errors, programs, remote keys and skew.
2. MEASURE MAGIC  
Allows the user to automatically create the correct geometric features by entering points.  
Used for Shaft Checking, this continuously monitors the probe position until FINISH is pressed.  
Switches from DMS to Decimal Degrees. Configures remote keys. Sets annotation forward or backward. Used to reset to factory defaults. Downloads all features (including temporary) through RS-232 port. Downloads programs through RS-232 port. PRINT PROGRAMS  
Downloads programs through RS-232 port. Configures RS-232 download parameters. PRINT SETTINGS  
Downloads setup parameters. TEST  
Independently runs diagnostic testing. Sets display resolution. Sets units for inch or millimeter. FLASH DELAY#  
Sets duration for which messages are displayed.
3. MIN/MAX  
Used for Shaft Checking, this continuously monitors the probe position until FINISH is pressed.  
Switches from DMS to Decimal Degrees. Configures remote keys. Sets annotation forward or backward. Used to reset to factory defaults. Downloads all features (including temporary) through RS-232 port. Downloads programs through RS-232 port. PRINT PROGRAMS  
Downloads programs through RS-232 port. Configures RS-232 download parameters. PRINT SETTINGS  
Downloads setup parameters. TEST  
Independently runs diagnostic testing. Sets display resolution. Sets units for inch or millimeter. FLASH DELAY#  
Sets duration for which messages are displayed.
4. ANGLE TYPES  
Sets annotation forward or backward. Used to reset to factory defaults. Downloads all features (including temporary) through RS-232 port. Downloads programs through RS-232 port. PRINT PROGRAMS  
Downloads programs through RS-232 port. Configures RS-232 download parameters. PRINT SETTINGS  
Downloads setup parameters. TEST  
Independently runs diagnostic testing. Sets display resolution. Sets units for inch or millimeter. FLASH DELAY#  
Sets duration for which messages are displayed.
5. REMOTE KEYS  
Configures remote keys.
6. ANNOTATION  
Sets annotation forward or backward. Used to reset to factory defaults. Downloads all features (including temporary) through RS-232 port. Downloads programs through RS-232 port. PRINT PROGRAMS  
Downloads programs through RS-232 port. Configures RS-232 download parameters. PRINT SETTINGS  
Downloads setup parameters. TEST  
Independently runs diagnostic testing. Sets display resolution. Sets units for inch or millimeter. FLASH DELAY#  
Sets duration for which messages are displayed.
7. SET DEFAULT  
Used to reset to factory defaults. Downloads all features (including temporary) through RS-232 port. Downloads programs through RS-232 port. PRINT PROGRAMS  
Downloads programs through RS-232 port. Configures RS-232 download parameters. PRINT SETTINGS  
Downloads setup parameters. TEST  
Independently runs diagnostic testing. Sets display resolution. Sets units for inch or millimeter. FLASH DELAY#  
Sets duration for which messages are displayed.
8. PRINT ALL FEATURES  
Downloads all features (including temporary) through RS-232 port. Downloads programs through RS-232 port. PRINT PROGRAMS  
Downloads programs through RS-232 port. Configures RS-232 download parameters. PRINT SETTINGS  
Downloads setup parameters. TEST  
Independently runs diagnostic testing. Sets display resolution. Sets units for inch or millimeter. FLASH DELAY#  
Sets duration for which messages are displayed.
9. PRINT PROGRAMS  
Downloads programs through RS-232 port. PRINT PROGRAMS  
Downloads programs through RS-232 port. Configures RS-232 download parameters. PRINT SETTINGS  
Downloads setup parameters. TEST  
Independently runs diagnostic testing. Sets display resolution. Sets units for inch or millimeter. FLASH DELAY#  
Sets duration for which messages are displayed.
10. FEATURE FORMAT  
Sets printout format 32, 40, or 80 column. RS-232 PRINT SETTINGS  
Downloads setup parameters. TEST  
Independently runs diagnostic testing. Sets display resolution. Sets units for inch or millimeter. FLASH DELAY#  
Sets duration for which messages are displayed.
11. RS-232  
Configures RS-232 download parameters. PRINT SETTINGS  
Downloads setup parameters. TEST  
Independently runs diagnostic testing. Sets display resolution. Sets units for inch or millimeter. FLASH DELAY#  
Sets duration for which messages are displayed.
12. PRINT SETTINGS  
Downloads setup parameters. TEST  
Independently runs diagnostic testing. Sets display resolution. Sets units for inch or millimeter. FLASH DELAY#  
Sets duration for which messages are displayed.
13. TEST  
Independently runs diagnostic testing. Sets display resolution. Sets units for inch or millimeter. FLASH DELAY#  
Sets duration for which messages are displayed.
14. DISPLAY RESOLUTION  
Sets display resolution. Sets units for inch or millimeter. FLASH DELAY#  
Sets duration for which messages are displayed.
15. DEFAULT UNITS  
Sets units for inch or millimeter. FLASH DELAY#  
Sets duration for which messages are displayed.
16. FLASH DELAY#  
Sets duration for which messages are displayed.
17. AXIS DIRECTIONS  
Sets X, Y, and Z axis directions. Dealer setup parameters; Password required. SUPERVISOR  
Selects English, French, German, Spanish, or Italian. LANGUAGES
18. SUPERVISOR  
Selects English, French, German, Spanish, or Italian. LANGUAGES
19. LANGUAGES  
Selects English, French, German, Spanish, or Italian.



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