



TOOL TESTING LAB

CALIBRATION PRICE GUIDE



WWW.TTLCAL.COM



ACCREDITED TOOL CALIBRATION AND SALES

5 DAY OR LESS TURNAROUND TIME

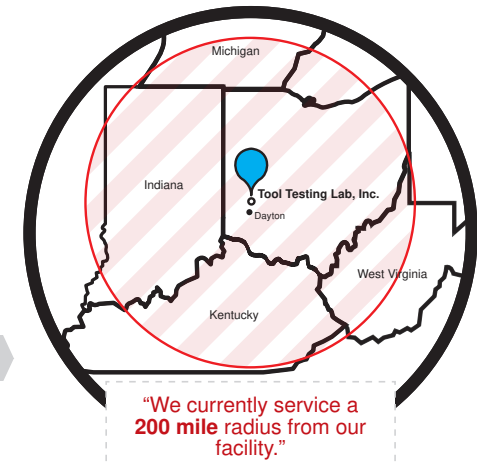
NEW TOOLS IN STOCK

**WE ARE
ACCREDITED!**



ISO 17025

**ASK US
ABOUT OUR
MOBILE LAB!**



TOOL TESTING LAB

937-898-5696 | 11601 N. Dixie Dr, Tipp City, OH 45371 | www.ttcal.com



VISIT US ONLINE!
WWW.TTLCAL.COM
Come tour our facility!

Call us to schedule a tour of our lab and meet our technicians who
calibrate your tools.



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List it
& Ship it

**What's
inside?**



This catalog includes most of our calibration capabilities and pricing of tools "in house." For on-site calibration, please contact onsite@ttlcal.com or call us @ 937-898-5696. Our capabilities are continuing to grow, therefore, contact us if your tool is not listed.

ELECTRONIC

Ask us about our used tools!

Here at the lab, we also carry a variety of used tools. As a thank you for purchasing your tool through us, we will include the certification with each tool that you buy new or used.

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**Need a new
multimeter?**

Call 937-898-5696
for new multimeter
pricing



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FLUKE & EXTRECH

SALE

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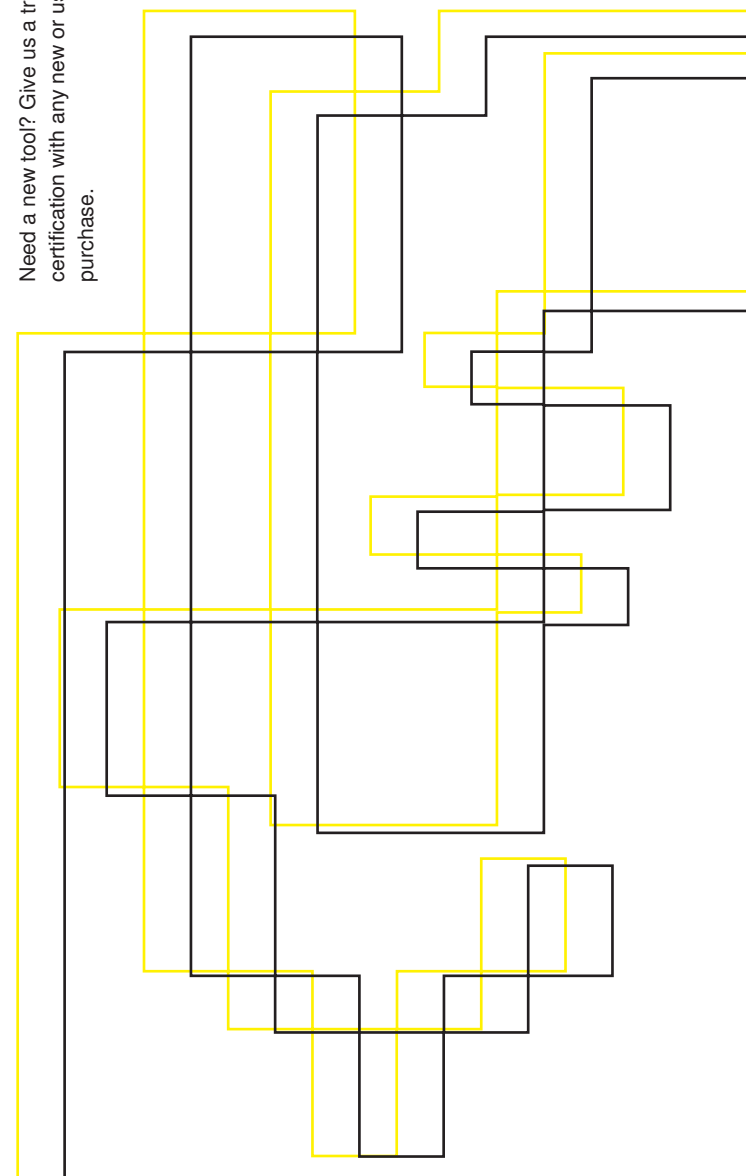
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WRIST STRAP TESTER	49
XPNDR/INTERROGATOR	308
ZETEC EDDY CURRENT INSTRUMENT	120



Visit www.ttlcal.com

Need a new tool? Give us a try. We include certification with any new or used tool purchase.



POPULAR ELECTRONIC PRODUCTS

Offering you the best products with accuracy guaranteed.



True-rms AC/DC Clamp Meter

- 600 A ac and dc current measurement
- Optional iFlex™ current probe measures to 2500 A ac
- Min, max, avg, and inrush

MODEL
NUMBER
FLU-374



MODEL
NUMBER
EXT-EX330

Mini Multimeter

- Autoranging DMM with 12 functions and 0.5% basic accuracy
- AC/DC voltage and current, resistance, capacitance, frequency, temperature, duty cycle, and diode/continuity
- Built-in non-contact AC voltage detector (NCV) with red LED indicator and audible beeper
- Large-digit 4,000 count LCD display
- 10A max current
- Max hold, data hold, relative and auto power off
- Type K temperature measurements
- Complete with test leads, tilt stand, protective holster, general purpose type K bead probe and 2 AAA batteries



MODEL
NUMBER
FLU-177

Fluke 177 Multimeter

- Large LCD backlit display
- Lifetime warranty
- Automatic ranging that measures twice as quickly as other multimeters
- Measures voltage, resistance, capacitance, frequency, diode testing, continuity and 10 amp current capacity
- Basic accuracy .09%
- Includes manual, test leads, and case



MODEL
NUMBER
FLU-179

MEASURETEMP

Fluke 179 Multimeter

- Measures temperature (probe included)
- Large LCD backlit display
- Lifetime warranty
- Automatic ranging that measures twice as quickly as other multimeters
- Measures voltage, resistance, capacitance, frequency, diode testing, continuity and 10 amp current capacity
- Basic accuracy .09%
- Includes manual, test leads, and case



MODEL
NUMBER
EXT-470

ECONOMICAL

Extech Multimeter

- True RMS DMM with 12 functions and 0.3% basic accuracy
- AC/DC voltage and current, resistance, capacitance, frequency, typeK and IR temperature, diode/continuity, and duty cycle
- Built-in non-contact InfraRed thermometer with 8:1 distance to target ratio with 0.95 fixed emissivity
- Input fuse protection and mis-connection warning
- 20A max current
- Type K temperature measurements
- Data hold, relative, auto power off
- Large-digit backlit LCD
- Complete with CAT III test leads, tilt stand, protective holster, velcro hanging strap, type K bead wire temp probe and 9V battery

Most items are
in stock and
all are certified
upon purchase.



MODEL
NUMBER
EXT-365515

Stop Watch

- 1/100th second resolution for 30 min
- 1 second resolution up to 24 hours
- Calendar displays day, month, and date



BEST
SELLER

MODEL
NUMBER
FLU-87-5

Fluke 87-5 Multimeter

- Unique function for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment (87V)
- Built-in thermometer conveniently allows you to take temperature readings without having to carry a separate instrument
- Optional magnetic hanger for easy set-up and viewing while freeing your hands for other tasks
- Large digit display with bright, two-level backlight makes the 80- Series V significantly easier to read than older models



TORQUE



Did you know?

At TTL we carry a wide variety of CDI torque wrenches for purchase. We also stock parts for almost all American made wrenches so we can bring your wrench back to life with precision and quality.

FYI... Drive size typically determines cost for digital and analog torque wrenches.

ANGLE TORQUE WRENCH 1/2 DR.	85
ANGLE TORQUE WRENCH 1/4 DR.	74
ANGLE TORQUE WRENCH 3/4 DR.	108
ANGLE TORQUE WRENCH 3/8 DR.	80
CALIBRATION ARM (TORQUE), UPTO 24 IN	83
CALIBRATION ARM (TORQUE), UPTO 48 IN	138
COMPUTORQUE TORQUE WRENCH 1/2 DR.	47
COMPUTORQUE TORQUE WRENCH 3/4 DR.	70
NUTRUNNER	95
OIL FILTER WRENCH	36
PRESET TORQUE ADAPTOR	36
SWEENEY MULTIPLIER 2500 TO 5001 FT LB	275
TORQUE ALERT 3/4 DR.	70
TORQUE CALIBRATOR <= 75 FT LB	132
TORQUE CALIBRATOR <= 900 IN LB	132
TORQUE CALIBRATOR >75 FT LB	193
TORQUE CALIBRATOR >900 IN LB	193
TORQUE CALIBRATOR, MULTI- RANGE, 2 RANGES	286
TORQUE CALIBRATOR, MULTI- RANGE, 3 RANGES	286
TORQUE CALIBRATOR, MULTI- RANGE, 4 RANGES	479
TORQUE LIMITER	36
TORQUE MULTIPLIER < 1501 FT LB	132
TORQUE MULTIPLIER >2500 & < 5001 FT LB	275

TORQUE MULTIPLIER, 10001-20000 FT LB	550
TORQUE MULTIPLIER, 5001-10000 FT LB	385
TORQUE MULTIPLIER, POWERDYNE < 2501 FT LB	176
TORQUE SCREWDRIVER	36
TORQUE TRANSDUCER <= 75 FT LB	132
TORQUE TRANSDUCER <= 900 IN LB	132
TORQUE TRANSDUCER >75 FT LB	193
TORQUE TRANSDUCER >900 IN LB	193
TORQUE TRANSDUCER, MULTI- RANGE, 2 RANGES	286
TORQUE TRANSDUCER, MULTI- RANGE, 3 RANGES	385
TORQUE TRANSDUCER, MULTI- RANGE, 4 RANGES	479
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TORQUE WRENCH >1000 FT LB	130
TORQUE WRENCH 1" DR. > 1000 FT LBS	130
TORQUE WRENCH 1" DRIVE < 1001 FT LBS	94
TORQUE WRENCH 1/2 DR.	47
TORQUE WRENCH 1/4 DR.	36
TORQUE WRENCH 10001-20000 FT LB	550
TORQUE WRENCH 1-1/2 IN DRIVE	176
TORQUE WRENCH 3/4 DR.	70
TORQUE WRENCH 3/8 DR.	41
TORQUE WRENCH 5001-10000 FT LB	385

TORQUE WRENCH TESTER 1-75 FT LB	132
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TORQUE WRENCH TESTER, MULTI-RANGE, 3 RANGES	385
TORQUE WRENCH TESTER, MULTI-RANGE, 4 RANGES	479
TORQUE WRENCH, 1000 - 2500 FT LB	130
TRANSDUCER TORQUE <= 900 IN LB	132

“ We are your torque wrench’s best critic. ”



IN A PINCH & NEED A WRENCH?

We carry a wide variety of click-type, digital, and dial torque wrenches in stock.

Torque- Turning wrenches from the beginning

It's where calibration all began at Tool Testing Lab. Beginning with a wrench and a dream, Tool Testing Lab has made huge strides in becoming a versatile company to better serve our customers calibration and tooling needs. As our capabilities continue to expand, so do our expectations... We set our standards high in delivering quality service while still providing a quick turn-around time.





FORCE / MASS / TENSION

Did you know?

All new tool purchases are moved to the front of the line for calibration. Our goal is for them to ship out the same day.



Need an aircraft scale in a hurry?

We offer a certified 50K aircraft scale as a weekly rental. Call for details. **Save Big!**

AIRCRAFT PLATFORM SCALE ≤5000 LB	87
AIRCRAFT PLATFORM SCALE 5001 - 10K LB	110
AIRCRAFT PLATFORM SCALE 10001 - 50K LB	151
AIRCRAFT PLATFORM SCALE 50001 - 100K LB	314
AIRCRAFT SCALE, 2 CELLS 100K-100K	627
AIRCRAFT SCALE, 2 CELLS 50K-50K	300
AIRCRAFT SCALE, 3 CELLS 2.5K-2.5K-2.5K	260
AIRCRAFT SCALE, 3 CELLS 7.5K-2.5K-7.5K	307
AIRCRAFT SCALE, 3 CELLS 100K-100K-100K	941
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FLOOR SCALE < 101 LB	35
FLOOR SCALE 101 LB TO 300 LB	87
FLOOR SCALE 301-500 LB	110
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FLOOR SCALE 1001-3000 LB	248

FLOOR SCALE 3001-5000 LB	330
FLOOR SCALE 5001-7500 LB	413
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HARDNESS TESTER 2 SCALES	187
HARDNESS TESTER 3 SCALES	215
HARDNESS TESTER 4 SCALES	242
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HARDNESS TESTER 7 SCALES	325
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LOAD CELL 5001-10000 LB BOTH DIRECTIONS	165
LOAD CELL 5001 - 10000 LB ONE DIRECTION	110
LOAD CELL 10001-40000 LB BOTH DIRECTIONS	226

LOAD CELL 10001 - 50000 LB ONE DIRECTION	151
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SPRING CALIBRATION	35
SPRING SCALE	35
SPRING TESTER	49
STRAP & BANDING TENSION METER	53



New tensiometers are available for purchase. We carry a variety of digital and analog styles for you to choose from. We understand the importance of comfort and accessibility when working with tensiometers. Every tensiometer includes a cable size guide and a chart when applicable.

VALVE SPRING TESTER	49
WEBBING INSPECTION	28
WEIGHT, GRAM >= 1 Kg	12
WEIGHT, GRAM < 1 Kg	7
WEIGHT, GRAM SET 12PC	74
WEIGHT, GRAM SET 13PC	86
WEIGHT, GRAM SET 14PC	98
WEIGHT, GRAM SET 9PC	56
WEIGHT, LB/OZ >= 2 LB, >= 32 OZ	12
WEIGHT, LB/OZ < 2 LB, < 32 OZ	7
WEIGHT GRAM 21 PC SET	130
WELD FORCE GAGE	171
WELD PROBE FORCE GAGE	171
WINGRIP	495
WIRE PULL TESTER	119





TEMP & HUMIDITY

Did you know?

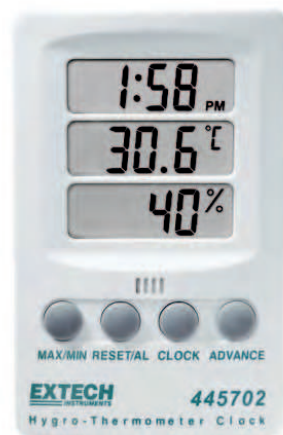
You can check out our ISO/IEC 17025 accreditation online at www.ttlcal.com.

BELFORD PSYCHROMETER	83
BOILING TEST BOX	313
CHART RECORDER, TEMPERATURE & HUMIDITY	85
DIGITAL THERMOMETER, 2 CHANNEL	165
DIGITAL THERMOMETER, 3 CHANNEL	248
DIGITAL THERMOMETER, 4 CHANNEL	330
DRYWELL CALIBRATOR, DUAL WELL	275
DRYWELL CALIBRATOR, SINGLE WELL	165
DUAL PROBE THERMOMETER	83
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THERMOMETER (PER POINT)	15
THERMOMETER, MULTI-RANGE, 1 CHANNEL	83
THERMOMETER, MULTI-RANGE, 2 CHANNEL	165
THERMOMETER, MULTI-RANGE, 3 CHANNEL	248
THERMOMETER, MULTI-RANGE, 4 CHANNEL	330
WEATHER STATION, REMOTE	138

Temp&Humidity



“ Get your temp
checked here. ”



937-898-5696

11601 N. Dixie Dr, Tipp City, OH 45371

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OPTICS

We do not charge an evaluation fee for most tools that do not pass certification.

BLACKLIGHT METER OR SENSOR	78
DEVORE FLASH GUNMETER	110
DIGITAL LIGHT METER: TWO SENSORS	156
DIGITAL LIGHT METER: ULTRAVIOLET SENSOR	78
DIGITAL LIGHT METER: WHITE SENSOR	78
FIBER OPTIC LIGHT SOURCE	78
FIBER OPTIC POWER METER	78
FLASH GUN	110

“ We thrive on expanding our capabilities. ”

FLASH PHOTOMETER	78
GLOSS METER	78
GLOSS STANDARD	110
LED SOURCE	78
LIGHT COMPARATOR	110
LIGHT METER: TWO SENSORS	156
LIGHT METER: ULTRAVIOLET SENSOR	78
LIGHT METER: WHITE SENSOR	78
OPTICAL DETECTOR	78
PHOTO DETECTOR	78
PHOTOMETER	78
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REFLECTOMETER	78
SPECTRAL LAMP	78
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STROBE LIGHT	78
STROBESCOPE	78
ULTRAVIOLET LIGHTMETER	78
UV LIGHT SENSOR	78
WHITE LIGHT SENSOR	78





FREE CERTIFICATION WITH NEW TOOL PURCHASE

New tool purchases include the initial calibration and a redeemable coupon for the next calibration of the same tool. Some exclusions may apply.



DIMENSIONAL

Did you know?
We have a climate controlled gage lab
used to test your equipment with optimal
accuracy.

Have a surface plate that requires calibration?

Take advantage of our on-site calibration and resurfacing capabilities. Ask us for details.

ANGLE BLOCK - ADJUSTABLE	77
ANGLE BLOCK LARGE	77
ANGLE BLOCK SET (PER BLOCK)	12
ANGLE BLOCK SMALL	12
ANVIL MICROMETER, 0-6 IN	58
ANVIL MICROMETER, 6-12 IN	88
BALL GAGE SET, 52 PIECE	286
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BORE GAGE (PER HEAD)	35
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BRAKE DRUM MICROMETER	34
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CALIPERS 37-48 IN	62
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CHAMFER GAGE	48
CMM DIMENSION CK, MINUTE CHARGE	2.33
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CO-AXIAL INDICATOR	51
COMPULEVEL	35
CONTROL SURFACE PROTRACTOR	35
CRIMPER	40
CRIMPER DIE (EACH)	30
CRIMPER PIN GAGE	12

CUSTOM 3 POINT	24
CUSTOM 4 POINT	29
CUSTOM 5 POINT	35
CUSTOM 6 POINT	41
CUSTOM 7 POINT	47
CUSTOM 8 POINT	52
CUSTOM 9 POINT	58
CUSTOM 10 POINT	64
CUSTOM 11 POINT	70
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CUSTOM 13 POINT	81
CUSTOM 14 POINT	87
CUSTOM 15 POINT	93
CUSTOM 16 POINT	99
CUSTOM 17 POINT	104
CUSTOM 18 POINT	110
CUSTOM MEASUREMENT 1 POINT	18
CUSTOM MEASUREMENT 2 POINT	18
CYLINDER GAGE	35
CYLINDER SQUARE 0 TO 12 IN	58
CYLINDER SQUARE 12 TO 24 IN	110
CYLINDER SQUARE 24 TO 36 IN	138
DEPTH MICROMETER, 1 ROD ONLY	26
DEPTH MICROMETER 0-3 IN	32
DEPTH MICROMETER 0-4 IN	38
DEPTH MICROMETER 0-6 IN	47
DEPTH MICROMETER 0-9 IN	65
DEPTH MICROMETER 0-12 IN	86
DIAL INDICATOR	26
DIGITAL LEVEL	35

DIGITAL MICROMETER, O.D. 0-3 IN/ RODS	49
DIGITAL MICROMETER, O.D. 0-4 IN/ RODS	62
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DIGITAL MICROMETER, O.D. 2-6 IN/ RODS	49
DIGITAL MICROMETER, O.D. 6-9 IN/ RODS	49
DIGITAL MICROMETER, O.D. 6-12 IN/RODS	85
DIGITAL MICROMETER, O.D. 9-12 IN/RODS	49
DIGITAL MICROMETER, O.D. 12-18 IN/RODS	85
DIGITAL MICROMETER, O.D. 20-24 IN/RODS	62
DIGITAL MICROMETER + STANDARD	32
DMC 221-BOX 1 CRIMPER KIT	473
DMC 350 CRIMPER	140
DMC 519 CRIMPER KIT	523
DMC 567 CRIMPER KIT MOD 1	1252
DMC 584 CRIMPER KIT	873
DMC 776	435
DMC 852 CRIMPER KIT	510
DMC 921 CRIMPER KIT	763
DMC 973	435
DMC 977 CRIMPER KIT	883
DMC 1107 CRIMPER KIT	626
DMC 1384 CRIMPER KIT	644
DMC 1522 CRIMPER KIT	784

DMC 1550 CRIMPER KIT	225
DMC 1591 CRIMPER KIT	962
DMC 1704 CRIMPER KIT	783
DMC 315A CRIMPER KIT	403
DMC603, 2 CRIMPERS+1 STRIPPER	120
DUAL SCALE DIAL INDICATOR	31
ELECTRONIC LEVEL SYSTEM	138
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FEELER GAGE, SINGLE LEAF	12
FEELER GAGE SET PER LEAF (2 OR MORE)	4
FILLET GAGE SET	35
FLATNESS CHECK	31
GAGE BLOCK 5 TO 20 IN	19
GAGE BLOCK INDIVIDUAL, UNDER 5 INCH	18
GAGE BLOCK SET (5 OR MORE) < 5 INCHES, EACH	3
GAGE PIN IN A SET 6 OR MORE	1
GAGE PIN INDIVIDUAL CERTIFICATION	12
GRANITE SQUARE 0 TO 12 IN	33
GRANITE SQUARE 12 TO 24 IN	66
GRANITE SQUARE 24 TO 36 IN	99
HEIGHT GAGE 1-12 IN	44
HEIGHT GAGE 13-18 IN	51
HEIGHT GAGE 19-24 IN	59
HEIGHT GAGE 25-30 IN	66
HEIGHT GAGE 40 IN	73
HEIGHT MASTER	91
HEIGHT PROBE	48
I.D. MICROMETER (8")	54
I.D. MICROMETER (9")	60
I.D. MICROMETER (10")	66
I.D. MICROMETER (12")	91
I.D. MICROMETER, 1.5-6 IN	49
I.D. MICROMETER, 1.5-12 IN	91
I.D. MICROMETER, 4-15 IN	73

I.D. MICROMETER, 4-24 IN	73
I.D. MICROMETER, 30-32 IN	49
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I.D. MICROMETER, SINGLE ROD < 13 IN	26
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LASER LEVEL (NOT SITE)	35
LASER MICROMETER	165
LASER SITE LEVEL	78
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LENGTH STANDARD >50-100 IN, PITCH/ROLL	165
LENGTH STANDARD >100-150 IN, PITCH/ROLL	220
LENGTH STANDARD >150-200 IN, PITCH/ROLL	275
LEVEL, BUBBLE	35
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LINEAR SCALE 51-100 IN	110
LINEAR SCALE 101-150 IN	165
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MICROMETER	26
MICROMETER, ANVIL 6-12 IN	88
MICROMETER, BRAKE DRUM	34
MICROMETER, DEPTH 0-3 IN	32
MICROMETER, DEPTH 0-4 IN	38
MICROMETER, DEPTH 0-6 IN	47
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MICROMETER, DEPTH 0-12 IN	86
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MICROMETER STANDARD 13-24 IN, EACH	26
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PROFILOMETER TEST PATCH	50
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PROTRACTOR	35
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SPINDLE MICROMETER	35
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SURVEILLANCE MASTER 6 IN	78
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THICKNESS GAGE	26
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V-BLOCK, PER BLOCK, ONE SIDE	49
V-BLOCK, TWO-SIDED	77
WELD FILLET GAGE W/DATA (PER GAGE)	24
WHEEL SECTION INSP.	97
WINDSHIELD STANDARD	35
WIRE LENGTH METER	40
WIRE STRIPPER	40
Z- MICROMETER	165



List it & Ship it

Hassle-free Certification: With no RMA required, we keep it simple when sending in your tools. Just list it and ship it with a P.O. and you will be notified of the tools received. Tools will be calibrated in 5 business days or less. (some exclusions may apply)

If your tool fails calibration, the sales team will notify you.




FLOW / CHEMICAL

Did you know?
We can perform limited certifications, at
your request, on many different tools.

Our capabilities are continuing to grow...

Please don't hesitate to ask about a tool that is not shown.

AIR FLOWMETER, 1.81 TO 60 CFM	165
AIR FLOWMETER, 51 TO 1699 LPM	165
AIR FLOWMETER, 109 TO 3600 CFH	165
AIR FLOWMETER <= 1.8 CFM	108
AIR FLOWMETER <= 50 LPM	108
AIR FLOWMETER 60 CFM TO 3600 CFH	248
AIR FLOWMETER <= 108 CFH	108
AIR FLOWMETER 1700 TO 3200 LPM	248
ANEMOMETER	83
ANEMOMETER-THERMO	121
BALL FLOWMETER <= 1.8 CFM	108
BALL FLOWMETER <= 50 LPM	108
BALL FLOWMETER <= 108 CFH	108
COMBUSTION ANALYZER	165
CONDUCTIVITY METER	83
CONDUCTIVITY MULTI	116
CONDUCTIVITY STD/1	83
CONDUCTIVITY STD/2	165
CONDUCTIVITY STD/3	248
CONDUCTIVITY STD/4	330
CONDUCTIVITY STD/5	413
DIGITAL FLOW METER	154
FLOWMETER, GPM	108
FLOWMETER <= 1.8 CFM	108
FLOWMETER <= 50 LPM	108
FLOWMETER <= 108 CFH	108
FLOWMETER TEST KIT	248
FUEL PORTA TEST UNIT	440

	
GAS ANALYZER	165
GAS DETECTOR, SNIFFER SINGLE GAS	83
GAS INDUSTRIAL METER	468
GAS MONITOR, SNIFFER SINGLE GAS	83
GRADUATED CYLINDER	27
HYDROMETER	83
LEAKAGE TESTER	79
MEASURING VESSEL OR CUP	27
PH/ION/CONDUCTIVITY METER	83
PH METER	49
PIPETTES	55
REFRACTOMETER	43
THERMO-ANEMOMETER	121
VISCOSITY CUP	55





IT'S FLOW TIME.

EXPEDITE SERVICES AVAILABLE UPON REQUEST.



PRESSURE

Did you know?

Tool Testing Lab has been calibrating tools for over 30 years.

We are known for our high quality pressure assemblies.

See them on page 22.

ADDITEL PRESSURE CALIBRATOR, 3 RANGES	593
AIR CONDITIONER FREON TEST GAUGES	88
AIR DATA MULTIMETER	435
AIRDATA TEST SET WITH RVSM	468
ALTIMETER	110
BACKFLOW PREVENTER	64
BAR PRESSURE GAUGE 0-27 BAR $\geq 1\%$	35
BAR PRESSURE GAUGE 28-68 BAR $\geq 1\%$	41
BARFIELD PRESSURE TESTER	116
BAROMETER, LOW PRESSURE	35
BAROMETER/HA $< 1\%$ & $\geq 0.1\%$	64
CABIN PRESSURE TESTER	248
CHART RECORDER, HIGH PRESSURE	127
CHART RECORDER, LOW PRESSURE	116
COMBINATION AIRSPEED & ALTIMETER INSTRUMENT	220
CRYSTAL CALIBRATOR	226
CYLINDER TESTER, DIFFERENTIAL	50
CYLINDER TESTER, DIFFERENTIAL+ORIFICE	70
DEAD WEIGHT CALIBRATOR	446
DECAY HEATER TESTBOX	116
DECAY PRESSURE KIT	121
DIFFERENTIAL CYLINDER TESTER	50
DIFFERENTIAL CYLINDER TESTER+ORIFICE	70
DIGITAL MANOMETER	64

DIGITAL PRESSURE TRANSDUCER < 1001 PSI	94
DIGITAL PRESSURE TRANSDUCER > 1000 PSI	94
DRUCK PRESSURE DISPLAY	50
FLUKE PRESSURE MODULE	78
FUEL NOZZLE TESTER	127
HASTINGS VACUUM GAUGE	106
HEATER DECAY TESTBOX	116
HEATER DECAY TESTER	116
HEATER TESTBOX	116
HEISE PRESSURE GAUGE	50
HIGH ACCY/COMBO VACUUM/ PRESSURE $< 1\%$ & $\geq 0.1\%$	82
HIGH ACCY/PRESSURE GAUGE 0-400 PSI $< 1\%$ & $\geq 0.1\%$	64
HIGH ACCY/PRESSURE GAUGE 401-999 PSI $< 1\%$ & $\geq 0.1\%$	69
HIGH PRESSURE, DUAL RANGE CALIBRATOR	825
HIGH PRESSURE CALIBRATOR, HIGH ACCURACY	275
HIGH PRESSURE CUSTOM LEAK TEST	121
HIGH PRESSURE REGULATOR	94
HIGH PRESSURE STATIC TEST	55
HYDRAULIC POWER UNIT	186
MAGNEHELIC GAUGE	35
MANOMETER	35
MANOMETER/HA $< 1\%$ & $\geq 0.1\%$	64
MERCURY PRESSURE GAUGE	35
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MULTI-RANGE PRESSURE CALIBRATOR	358
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OUTFLOW VALVE TESTER	248
OXYGEN PRESSURE REGULATOR	94
PITOT STATIC TEST SET, ALTIMETER & AIRSPEED	248
PITOT STATIC TESTER, ANALOG, 3 INSTRUMENTS	358
PRESSURE CALIBRATOR 0-1000 PSI	116
PRESSURE CALIBRATOR 1001 TO 16K PSI ONE RANGE	53
PRESSURE CALIBRATOR, .2 TO 1K PSI ONE RANGE	193
PRESSURE DECAY TESTER	116
PRESSURE GAUGE 0-27 BAR $\geq 1\%$	35
PRESSURE GAUGE 0-400 $\geq 1\%$ PSI	35
PRESSURE GAUGE 0-400 PSI/HA $< 1\%$ & $\geq 0.1\%$	64
PRESSURE GAUGE 0-400 PSI/UHA $< 0.1\%$	145
PRESSURE GAUGE 10K-15K PSI $\geq 1\%$	78
PRESSURE GAUGE 10K-15K PSI/HA $< 1\%$ & $\geq 0.1\%$	107
PRESSURE GAUGE 10K-15K PSI/ UHA $< 0.1\%$	217
PRESSURE GAUGE 1K-5K PSI $\geq 1\%$	48
PRESSURE GAUGE 1K-5K PSI/HIGH ACCY $< 1\%$ & $\geq 0.1\%$	76
PRESSURE GAUGE 1K-5K PSI/UHA $< 0.1\%$	186

PRESSURE GAUGE 20K PSI $\geq 1\%$	116
PRESSURE GAUGE 28-68 BAR $\geq 1\%$	41
PRESSURE GAUGE 30000 PSI	99
PRESSURE GAUGE 401-999 PSI $\geq 1\%$	41
PRESSURE GAUGE 401-999 PSI/HA $< 1\%$ & $\geq 0.1\%$	69
PRESSURE GAUGE 401-999 PSI/UHA $< 0.1\%$	151
PRESSURE GAUGE 5001-7500 PSI $\geq 1\%$	55
PRESSURE GAUGE 5001-7500 PSI/HA $< 1\%$ & $\geq 0.1\%$	84
PRESSURE GAUGE 5001-7500 PSI/UHA $< 0.1\%$	194
PRESSURE GAUGE, 345-517 BAR $\geq 1\%$	55
PRESSURE GAUGE, 518-1034 BAR $\geq 1\%$	78
PRESSURE GAUGE, 69-344 BAR $\geq 1\%$	48
PRESSURE GAUGE, MODULE	78
PRESSURE/PRESSURE GAUGE COMBO $\geq 1\%$	53
PRESSURE/PRESSURE GAUGE COMBO/HA $< 1\%$ & $\geq 0.1\%$	82
PRESSURE/PRESSURE GAUGE COMBO/UHA $< 0.1\%$	163
PRESSURE/VACUUM COMBO GAUGE/HA $< 1\%$ & $\geq 0.1\%$	82
PRESSURE/VACUUM GAUGE COMBO $\geq 1\%$	53
PRO SERIES TIRE KIT	70
PROOFMASTER KIT	119
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RAM GAUGE, HYDRAULIC PRESS	76
RATE OF CLIMB	110
REGULATOR, HIGH PRESSURE	95
RELIEF VALVE 0-999 PSI	36
RELIEF VALVE 1000-5000 PSI	48

SETRA PRESSURE GAUGE	226
STATIC TEST SET, ALTIMETER & AIRSPEED	248
TTL MULTI-GAUGE KIT	70
ULTRA HIGH PRESSURE REGULATOR	99
VACUUM GAUGE	35
VACUUM PRESSURE MODULE	61
VACUUM/PRESSURE COMBO GAUGE/HA $< 1\%$ & $\geq 0.1\%$	82
VACUUM/PRESSURE COMBO GAUGE/UHA $< 0.1\%$	163
VACUUM/PRESSURE GAUGE COMBO $\geq 1\%$	53
VACUUM/PRESSURE GAUGE COMBO/UHA $< 0.1\%$	163
VERTICAL SPEED INDICATOR	110
WATER PRESSURE GAUGE	35

Custom Gauges for aviation

Custom Built for Aviation

When it comes to checking pressure, we understand the importance of safety and precision. Our line of TTL tire gauges are built with the aviation technician in mind. If you need something custom made, then we will make it happen. With our variety of parts and assembly options, we can create the perfect gauge for you to use for many years to come.

Visit www.ttlcal.com to view our stock assemblies.



Model #	TTL-300-ATG-I	TTL-160-ATG	TTL-300-ATI	TTL-300-DTG-HA	TTL-300-DTI-HA	TTL-300-DTG-K-HA	TTL-3000-ASG
Description	Analog Aircraft Tire Gauge	Analog Aircraft Tire Gauge	Analog Aircraft Tire Inflator	Digital Aircraft Tire Gauge	Digital Aircraft Tire Inflator	Digital Aircraft Tire Gauge Master Kit	Analog Aircraft Strut Inflator
List Price	\$155	\$155	\$247	\$329	\$399	\$399	\$288
Gauge Pressure (PSI)	300	160	300	300	300	300	3000
Accuracy	+/- 1% Full Scale	+/- 1% Full Scale	+/- 1% Full Scale	+/- 0.25% Full Scale	+/- 0.25% Full Scale	+/- 0.25% Full Scale	+/- 1% Full Scale
Display Readout	PSI	PSI	PSI	PSI / BAR / Kpa / mPa / FtH ₂ O, InHg, cmHG, mmHg	PSI / BAR / Kpa / mPa / FtH ₂ O, InHg, cmHG, mmHg	PSI / BAR / Kpa / mPa / FtH ₂ O, InHg, cmHG, mmHg	PSI
Auto Shut-off	-	-	-	Yes	Yes	Yes	-
Protective Rubber Boot	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Air Release Bleed Valve	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Safety Blow-Out	-	-	Yes	-	Yes	-	-
Small Bore Chuck	1	1	-	1	-	2	-
Dual Foot Chuck	-	-	-	-	-	Yes	-
Lock-On Chuck	-	-	Yes	-	Yes	-	-
Strut Chuck	-	-	-	-	-	-	Yes
Quick Connect	-	-	-	-	-	Yes	-
Swivel Fittings	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Inverted Gauge	Yes	-	-	Yes	-	Yes	-
Backlit Display	-	-	-	Yes	Yes	Yes	-
Peak Hold	-	-	-	Yes	Yes	Yes	-
Tire Tread Depth Tool	-	-	-	-	-	Yes	-
Case	Included	Included	Included	Included	Included	Included	Included
NIST Certification	Included	Included	Included	Included	Included	Included	Included
Warranty	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year	1 Year

CALIBRATE WITH CERTAINTY. BUY WITH CONFIDENCE.

*See manuals online at www.ttlcal.com



Replacement Inverted Gauge
Model # TTL-300-HA-I
Cost: \$250 including certification



Replacement Gauge
Model # TTL-300-HA
Cost: \$250 including certification



Replacement Inverted Gauge
Model # TTL-300-PSI-I
Cost w/o boot: \$70 including certification
Rubber boot: add \$10



Replacement Gauge
Model # TTL-300-PSI
Cost: \$70 including certification
Rubber boot: add \$10

937.898.5696

TOOL TESTING LAB

WWW.TTLCAL.COM

TOOL TESTING LAB

TERMS AND CONDITIONS

The Terms and Conditions are designed to assure that the outcome of the Tool Testing Lab, Inc. (TTL) goods and services are as successful as possible for both parties involved, requiring the combined effort of both TTL staff and the customer. Tool Testing Lab, Inc. is referred to herein as "TTL". The Customer's acceptance of the products or services provided by TTL shall agree to the following terms and conditions.

Record Keeping - TTL will maintain records of calibration and repair history for a minimum of 10 years.

Pricing - TTL agrees to maintain the quoted service pricing for the term of a purchase order and/or contract, provided that a firm purchase order and/or contract for the work, is received within thirty (30) days of the quote date.

Calibration Intervals - Calibration intervals can be set to any interval requested, determined by the customer.

Payment Terms - Invoices are payable within thirty (30) days from invoice date unless otherwise agreed upon in writing, in advance. Finance charges of 1.5% monthly may be added if not paid when due.

Sales Taxes - Sales tax will be collected on work shipped to an Ohio location, unless an exemption is on file.

Transportation and Risk of Loss - Unless otherwise stated by TTL, delivery of products shall be F.O.B. point of shipment and transportation expenses shall be paid by the Customer. Risk of loss passes to the Customer at the point of shipment.

Warranty - TTL warrants all repairs & calibration, to be free from defects in material or workmanship under normal use and service for a period of ninety (90) days from the date of invoice. TTL will repair or calibrate equipment at no charge if item is returned to TTL at the Customer's expense.

Limitation of Warranty and Liability - Liability of TTL (except as to title) shall not exceed the cost of correcting defects in products or calibrations. TTL assumes no liability for the consequences of misuse of products by the Customer. The foregoing is TTL's only obligation and the Customer's only remedy for breach of warranty. Except for gross negligence, willful misconduct, and remedies permitted under any other clause of these Terms and Conditions, the foregoing is the Customer's only remedy hereunder by way of breach of contract, negligence or other tort, or otherwise. In no event shall the Customer be entitled to incidental, special or consequential damages.

Discrepancies in Shipment and Damage to Merchandise - Products distributed by TTL are carefully packed and thoroughly inspected before leaving TTL's facility. Any claim for discrepancies will be honored only if reported within fifteen (15) days from receipt of shipment. TTL is not responsible for items after leaving TTL possession, such as drift, transportation effects, and improper handling.

Acceptance of Terms and Conditions - Acceptance of the terms and conditions herein is an essential prerequisite to any contract of sale made by the seller. No condition stated by the Customer in its offer or acceptance shall be binding upon the seller if in conflict with, inconsistent with, or in addition to the terms and conditions contained herein. Acceptance of any good or service manufactured and/or delivered hereunder shall constitute purchaser's agreement to said terms and conditions.

Safety - TTL will refuse any work, which, in TTL's opinion, would be hazardous to personnel or equipment.

Storage - Any item(s) not picked-up, shipped or delivered within 30 days after invoicing and advising the tools are ready for shipping or pickup, will have a storage fee invoiced monthly. The fee is calculated at \$5.00 per Sq. Ft. of storage space, for every month or partial month of storage.

Storage Cont. - Item(s) held over 1 year are considered abandoned and become the property of TTL and may be offered for sale.

Any customer item(s) that TTL has requested and not received approval to repair, certify or ship back within 30 days after receipt, and advising customer that more information is needed, will have a storage fee invoiced monthly. The fee shall be calculated at \$5.00 per square foot of storage space, for every week or partial week that TTL is storing customer items. Item(s) held over 1 year are considered abandoned and will become the property of Tool Testing Laboratory, Inc. and may be offered for sale.

PRICING, TURNAROUND AND RETURN TIMES

TTL reserves the right, with documented evidence, to modify pricing quoted in error, or where the requirements of the work have necessitated a substantial change in manpower or equipment requirements.

Equipment may be added at any time during the duration of the contract or deleted from the agreement with written notice, prior to the date of calibration under the agreement.

Equipment Evaluation - If a unit is sent in for tool calibration but is found to need repair and is beyond economical repair, TTL offers a no charge evaluation. If TTL is unable to repair and certify the tool, and a complete fail report including data is required, there will be a report charge.

Repairs are an additional charge.

Flat Rate Per Tool - cost covers adjustment, certification and complete test data information. This is the cost in advance, without waiting on time consuming quotes or receiving a higher dollar invoice than expected.

5 WORKING DAYS - Typical tools received in the TTL lab, that are not damaged and/or require repair, will be certified within that timeframe or the customer will not be charged for the certification.

EXPEDITE SERVICES

While You Wait Services - Expediting a certification has an additional 100% surcharge

Same Day Services - Expediting a certification has an additional 50% surcharge

Next Day Services - Expediting a certification has an additional 25% surcharge

Weekend or Holiday Services - Expediting a certification has an additional 100% surcharge

ON-SITE SERVICES AND PRICING

On-Site Work Flow - When work is performed at a Customer's site, it is the responsibility of the Customer to have instruments available to facilitate steady workflow. TTL requests the Customer's cooperation in providing the on-site technician(s) with an environmentally controlled area to perform calibrations and to stage instruments. This area must have proper lighting and electrical service as well as adequate space to set up equipment and computer(s).

On-Site Laboratory Work Flow - When work is performed at a Customer's site, it is the Customer responsibility to have instruments available for steady workflow.

Technicians are trained to ascertain times on-site and to keep schedules current and on track for TTL customers. When tools for calibration require disassembly of the equipment to disengage, that responsibility lies with the customer. The TTL technician does not assemble/disassemble facility machinery or provide maintenance and repair services when onsite for a scheduled calibration visit. Those services are provided when specific instruction and/or requests are documented and approved and will be agreed with and charged to the customer accordingly.

"We strive for exceptional customer service and precision calibration."

If **unplanned downtime** due to situations out of TTL's control, such as tools not being readily available for calibration, etc., the site contact will be notified, and that time will be billed at \$150/hr. in 0.25-hour increments.

When on-site, calibration certificates are subject to a review process before submitting to the customer. If special circumstance warrants the calibration certificate to be provided at the same time of the service, that certificate will be considered by the customer as a non-reviewed certificate that is still subject to review.

On-Site Pricing - Signed agreement required prior to scheduling on-site work. A dedicated work area within the site location is required depending on the type of equipment. A parking area is required if the TTL mobile laboratory vehicles are mobilized.

The minimum on-site charge is \$500 plus travel charges, and if travel and labor time exceeds 10 hours, overnight stay is required; lodging (at cost) and a daily per diem of \$50/technician will be charged. Travel expense is based on a round trip zone charge from our laboratory in Tipp City, Ohio. Travel time on weekends will be at 150% of the zone charge.

Tools certified after an 8-hr. workday and weekends, will be charged at 150% of the standard flat rate charge.

STANDARDS AND PRACTICES

The service level, with data and uncertainties, is to be determined on a per item basis. A calibration certificate with traceability information will be provided. Work will be performed in accordance with TTL's 17025 Accredited Scope of Services and TTL's Quality System. All calibration standards will be traceable to SI units through NIST, or other recognized national or international bodies or physical constants.

All calibration has a minimum of 4:1 Test Uncertainty Ratio (TUR). If less than 4:1, actual TUR will be noted.

TTL technicians are trained and monitored for competency.

TTL will report the environmental conditions under which calibration is performed (temperature and humidity).

Batteries will be replaced if under the stated voltage.

If repairs are required prior to performing the calibration, an estimate of time and cost will be provided.

The tool will be cleaned and given a sticker that will include the calibration date, due date (if agreed upon with the customer), and initials of the technician. Tamper-resistant seals will be applied where appropriate.

A certificate of calibration will be supplied for each calibrated instrument.

For items received in an out-of-tolerance condition, a separate out-of-tolerance notification will be provided. The report will identify the instrument, and data for parameters found in an out-of-tolerance condition.

Calibration recall notification will be provided for each device prior to the calibration due date.

For additional information please check the web site at
www.ttlcal.com or call 937-898-5696.

List it & Ship it

Help us process your tools fast by
providing the following info:

- ☒ P.O. number or name
- ☒ Contact info (new customer form is on our website)
- ☒ Return address
- ☒ Email (for tool notifications)
- ☒ Method of shipping (ground, next day air, ect.)
- ☒ Shipping account number (if applicable)
- ☒ List tools or indicate how many (we will verify that they match)
- ☒ Please note "expedite" if applicable (same day or next day service)
- ☒ Note repair concerns

Accepted
Payment Terms:
Wire Transfer
Credit Card
Check
Cash



No RMA required.

