Digital Bore Gauges





IOT READY

WiFi Option

IP67

Bluetooth SMART

Non Bluetooth is available upon request

USB

RS232

Bowers' Bluetooth XT3-BT digital internal micrometers offer an ergonomic design - including a larger and clearer LCD display - along with IP67 electronics protection, proximity output; allowing bi-directional communication giving greater flexibility for data acquisition and storage. The extended mechanical travel of the XT range means that special heads can also be manufactured to accommodate users most awkward measuring problems. Measuring heads for threads, splines slots, grooves, deep-holes and many more applications are available on request.

The Bowers XT3-BT range can be supplied as individual instruments or in complete sets, with UKAS certification of both measuring head and setting ring as standard.



The Sylvac Smart and BT anywhere apps allows communication with Bowers Bluetooth Android 8.0 IOS 10 Bluetooth 4.0 required



DATA TRANSMISSION

Code No	Description
30-926-6721	Sylvac Proximity USB Cable
30-981-7100	USB Dongle BT Smart for PC/D300S/D400S

Features

- Ergonomic design with larger and clearer LCD display
- IP67 Electronics
- Simple 2-button operation
- 4 preset memories
- Proximity output with built-in Bluetooth
- Bi-directional communication
- Range 2-300mm (0.080" – 12")
- 2-6mm 2 point/ 6-300mm 3 point measurement
- Resolution 0.001mm/0.00005"
- Tungsten carbide measuring faces on all 3-point heads from 12.5mm
- Blind bore measurement from 2mm – 6mm and above 12.5mm (0.500")
- Extensions available above 6mm for deep hole measurement
- Ratchet stop to ensure consistent measurement
- Setting rings included with individual instruments and sets
- UKAS certificates supplied as standard with all setting rings and gauges
- Serial number on all digital readouts and measuring heads
- Heads with special anvils available to suit specific customer requirements (e.g. Threads, grooves, 2-point, spherical, splines etc)
- Bore gauges manufactured according to DIN 863, part 4
- Supplied in fitted wooden case

Digital Bore Gauges

TECHNICAL SPECIFICATION: Individual instruments supplied with digital display unit, head, ring and UKAS

Code No	Range (mm)	Accuracy (mm)	Depth (mm)	Setting Ring (mm)
XTD1M-BT	2-2.5	0.004	9	2.50
XTD2M-BT	2.5-3	0.004	9	2.50
XTD3M-BT	3-4	0.004	12	4.00
XTD4M-BT	4-5	0.004	18	4.00
XTD5M-BT	5-6	0.004	18	5.00
XTD6M-BT	6-8	0.004	58	8.00
XTD8M-BT	8-10	0.004	58	8.00
XTD10M-BT	10-12.5	0.004	58	12.50
XTD12M-BT	12.5-16	0.004	62	12.50
XTD16M-BT	16-20	0.004	62	20.00
XTD20M-BT	20-25	0.004	66	20.00
XTD25M-BT	25-35	0.004	66	35.00
XTD35M-BT	35-50	0.004	80	35.00
XTD50M-BT	50-65	0.005	80	65.00
XTD65M-BT	65-80	0.005	80	65.00
XTD80M-BT	80-100	0.005	100	80.00
XTD100M-BT	100-125	0.006	115	125.00
XTD125M-BT	125-150	0.006	115	125.00
XTD150M-BT	150-175	0.007	115	175.00
XTD175M-BT	175-200	0.007	115	175.00
XTD200M-BT	200-225	0.008	118	225.00
XTD225M-BT	225-250	0.008	118	225.00
XTD250M-BT	250-275	0.009	118	275.00
XTD275M-BT	275-300	0.009	118	275.00

Code No	Range (inch)	Accuracy (inch)	Depth (inch)	Setting Ring (inch)
XTD1i-BT	0.080-0.100	0.00015	0.35	0.1000
XTD2i-BT	0.100-0.120	0.00015	0.35	0.1000
XTD3i-BT	0.120-0.160	0.00015	0.47	0.1600
XTD4i-BT	0.160-0.200	0.00015	0.70	0.1600
XTD5i-BT	0.200-0.250	0.00015	0.70	0.2000
XTD6i-BT	1/4-5/16	0.00015	2.28	0.3125
XTD8i-BT	5/16-3/8	0.00015	2.28	0.3125
XTD10i-BT	3/8-1/2	0.00015	2.28	0.500
XTD12i-BT	1/2-5/8	0.00015	2.44	0.500
XTD16i-BT	5/8-3/4	0.00015	2.44	0.750
XTD20i-BT	3/4-1	0.00015	2.62	0.750
XTD25i-BT	1-1 3/8	0.00015	2.62	1.375
XTD35i-BT	1 3/8-2	0.00015	3.15	1.375
XTD50i-BT	2-2 5/8	0.00020	3.15	2.625
XTD65i-BT	2 5/8-3 1/4	0.00020	3.15	2.625
XTD80i-BT	3 1/4-4	0.00020	3.94	3.250
XTD100i-BT	4-5	0.00025	4.53	5.000
XTD125i-BT	5-6	0.00025	4.53	5.000
XTD150i-BT	6-7	0.00030	4.53	7.000
XTD175i-BT	7-8	0.00030	4.53	7.000
XTD200i-BT	8-9	0.00030	4.65	9.000
XTD225i-BT	9-10	0.00030	4.65	9.000
XTD250i-BT	10-11	0.00035	4.65	11.000
XTD275i-BT	11-12	0.00035	4.65	11.000

DISPLAY UNITS ONLY

Display Unit (with BT)
XTDU2M-BT
XTDU2M-BT
XTDU2M-BT
XTDU2M-BT
XTDU2M-BT
XTDU6M-BT
XTDU6M-BT
XTDU10M-BT
XTDU10M-BT
XTDU10M-BT
XTDU20M-BT
XTDU20M-BT
XTDU20M-BT
XTDU50M-BT
XTDU50M-BT
XTDU50M-BT
XTDU100M-BT
XTDU100M-BT
XTDU100M-BT
XTDU100M-BT
XTDU200M-BT
XTDU200M-BT
XTDU200M-BT
XTDU200M-BT

SETS: Supplied with one digital display unit, heads, rings and UKAS

Code No (with BT)	Range (mm)	Measuring Heads	Setting Rings	Code No (with BT)	Range (inch)
SXTD1M-BT	2-6	5	3	**SXTD1i-BT**	0.080-0.250
SXTD3M-BT	6-10	2	1	**SXTD3i-BT**	1/4-3/8
SXTD4M-BT	10-20	3	2	**SXTD4i-BT**	3/8-3/4
SXTD5M-BT	20-50	3	2	**SXTD5i-BT**	3/4-2
SXTD6M-BT	50-100	3	2	**SXTD6i-BT**	2-4
SXTD7M-BT	100-150	2	1	**SXTD7i-BT**	4-6
SXTD8M-BT	150-200	2	1	**SXTD8i-BT**	6-8
SXTD9M-BT	100-200	4	2	**SXTD9i-BT**	4-8

SETS: Supplied with digital display units with each head,rings and UKAS

Code No (with BT)	Range (mm)	Measuring Heads	Setting Rings	Note
SXTD3U-BT	6-10	2	1	with 2 display units
SXTD4U-BT	10-20	3	2	with 3 display units
SXTD5U-BT	20-50	3	2	with 3 display units
SXTD6U-BT	50-100	3	2	with 3 display units

DEPTH STOP

Code No	Range (mm)	Range (inch)
DSTOP01	2-6	0.080-0.25



SXTD5M-BT



SXTD5U-BT

EXTENSIONS

Code No	Length (mm)	Length (inch)	To Fit Heads (mm)	To Fit Heads (inch)
EGX0200	63	2.5	6-10	1/4-3/8
EGX0400	76	3.0	10-12.5	3/8-1/2
EGX0500	100	4.0	12.5-20	1/2-3/4
EGX0001	150	6.0	20-50	3/4-2
EGX0004	150	6.0	50-300	2-12

Note: BT denotes Bluetooth. Non-BT available upon request.
Available without rings.

XT500 Large Diameter 3-point Bore Gauge

The Bowers XT500 large diameter 3-point bore-gauge has been designed specifically for the measurement of internal diameters between 300 and 500mm. The newly designed constant-force digital readout ensures that the measuring pressure remains constant throughout the measurement whilst radiussed measuring anvils provide optimum centralisation in the part. Anvil sets are supplied in 25mm steps (300-325, 325-350 etc) and each set has been manufactured to the exact toleranced size. The 300-325mm anvils are the master reference set and are used for setting the gauge in the setting ring. The other anvil sets are then fitted as required without further re-setting. This means that only one 300mm setting ring is required to set the gauge for all diameters in the full 300-500mm range of the instrument.

IP67

WiFi Option

Bluetooth SMART

RS232

IOT READY

USB

Non Bluetooth is available on request

Features

- Measuring range: 300-500mm
- New constant-force digital readout
- Single 300mm setting ring covers full range
- Radiussed anvils of tool-steel for optimum centering
- Accuracy: 15µm
- Repeatability: 3µm
- IP67 electronics
- Proximity output with built-in Bluetooth
- Resolution 0.01/0.001mm. Metric/inch switchable
- Fast accurate measurement
- Extensions available for deeper bores
- UKAS certificate with setting ring
- Certificate of conformity with bore gauge
- Supplied in fitted case



The Bowers XT500 with extension for deeper bores
We can also offer the XT500 with extensions and an increased force XTH pistol grip.
Please contact Bowers for price and availability

INDIVIDUAL INSTRUMENTS: Supplied with digital display unit, measuring head with exchangeable anvils and setting ring with UKAS certificate

Code No	Range (mm)	Accuracy (µm)	Depth (mm)	Setting Ring (mm)
XT5001M-BT	300-325	15	120	300
XT5002M-BT	300-325, 325-350	15	120	300
XT5003M-BT	300-325, 350-375	15	120	300
XT5004M-BT	300-325, 375-400	15	120	300
XT5005M-BT	300-325, 400-425	15	120	300
XT5006M-BT	300-325, 425-450	15	120	300
XT5007M-BT	300-325, 450-475	15	120	300
XT5008M-BT	300-325, 475-500	15	120	300

EXTENSIONS TO THE XT500

Code No	Range (mm)
DHEXT500	500
DHEXT1000	1000

SETS: Supplied with digital display unit, measuring head with exchangeable anvils and setting ring with UKAS certificate

Code No	Range (mm)
SXT3000M-BT	300-400
SXT4000M-BT	300-325, 400-500
SXT5000M-BT	300-500

DATA TRANSMISSION

Code No	Description
30-926-6721	Sylvac Proximity USB Cable
25-604-064	Wireless Proximity Module Transmitter
25-604-001	USB Receiver