



# DFX 3 Series

Digital Force Gauge

# **Functions and Features**





The DFX3 Series from Chatillon is a powerful and easy-to-use digital force gauge designed for handheld or test stand use. Whether performing basic force measurements or capturing peak values in tension and compression, the DFX3 delivers dependable, accurate results. Its compact design, full-color display, and advanced usability make it ideal for quality assurance, production, and field applications.

#### **Test Results - Clear and Accurate**

The DFX3 is designed for fast, easy force measurements with on-screen results – ideal for routine production testing.

- Live Force Readings in tension or compression, displayed with precision and unit of measure.
- Peak Force Capture automatically detects and holds the highest value observed during the test ideal for break or limit testing.
- Timestamped Results ensure each reading is linked to a precise moment, simplifying audit trails and quality reporting.
- On-Gauge Storage of up to 100 readings.

### **Battery Life – Built for Long Workdays**

The extraordinarily long battery life of the DFX3 reduces the need for continuous recharging. The dimming functionality of the DFX3 provides a battery life of 30 hours when the dimming is off while turning the dimming on will provide a full 40 hours of battery life

### **Accessories – Ready for Every Application**

The gauge has either #10-32 or 5/16-18 male threads depending on the gauge capacity. As standard the gauge is supplied with Flat adapter and Hook. A wide assortment of optional accessories are available:

Extension rods, pointed and chisel tips, notch adapters

JLWForce.com

- Eye-end adapters, pistol grips
- Test stand adapters for MT and TT series

Quick accessory changes make the DFX3 adaptable for virtually any handheld or fixture-mounted test setup.





# **Expect more...**



### **Intuitive Operation with Smart Interface**

The DFX3 features a single-layer user interface - no complex menu diving. Setup and testing are fast and frustration-free:

- Dedicated function keys adapt to the operation being performed
- Large, full-color LCD offers clear visuals of results, modes, and system status
- Display can be inverted for overhead or inverted mounting

Users can operate confidently with minimal training, improving productivity and reducing operator error.

### **Dependable, Accurate Measurements**

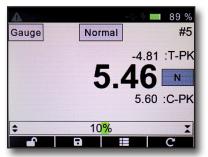
At the heart of the DFX3 is an integral loadcell sensor engineered for repeatable. high-accuracy results.

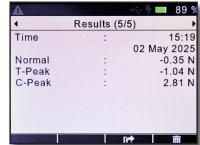
With mechanical overload protection up to 150% of full scale and advanced internal monitoring, the DFX3 not only measures force but also tracks overload history – a powerful tool for preventive maintenance and long-term reliability.

The dynamic color-coded load bar displays:

- Real-time force magnitude
- Force direction (tension/compression)
- Overload warning as you approach capacity
- These visual cues support safer, more controlled testing and reduce the risk of loadcell damage.

### **Results – Always at Hand**







## **Color Display**

A large, easy-to-read full color LCD can display readings, icons, and visually indicate gauge or test status using various colors.

#### **Cursor Keys**

Use the cursor kevs for setup, navigation, mode, and unit change.

# **Function Kevs**

The rubber keypad features dedicated and dynamic function keys.

The function keys correspond to displayed options and guide the user during operation.



**AMETEK** 

Digital Force Gauge





# **Ordering**



#### Choose the Right Model for Your Application

The DFX3 Series is available in a range of capacities to suit your specific testing needs. Whether you're measuring light forces or high-capacity loads, each model delivers the same high level of accuracy, reliability, and ease of use. Use the table below to identify the model that best fits your application, and choose between standard or NIST-certified versions for traceable calibration.

# **Models**

DFX3 Accuracy: 0.3% of FS

	lk	of	1	٧	k	gf	0	zf	ç	ıf
Model	Full Scale	Resolution								
DFX3-010	10.00	0.01	50.00	0.01	5.000	0.001	160.0	0.1	500	1
DFX3-050	50.00	0.01	250.0	0.1	25.00	0.01	0.008	0.1	25000	1
DFX3-100	100.0	0.1	500.0	0.1	50.00	0.01	1600	1	50000	1
DFX3-200	200.0	0.1	1000	1	100.0	0.1				

#### With Certificate of Calibration (NIST)

	lk	of	1	N	k	gf	0	zf	Ç	gf .
Model	Full Scale	Resolution								
DFX3-010-NIST	10.00	0.01	50.00	0.01	5.000	0.001	160.0	0.1	500	1
DFX3-050-NIST	50.00	0.01	250.0	0.1	25.00	0.01	800.0	0.1	25000	1
DFX3-100-NIST	100.0	0.1	500.0	0.1	50.00	0.01	1600	1	50000	1
DFX3-200-NIST	200.0	0.1	1000	1	100.0	0.1				

All models include a rechargeable battery, USB cable, and standard accessories. Optional accessories can be ordered separately—see <u>Accessories page</u> for details





# **Accessories**



#### **Expand Your Testing Capabilities**

The DFX3 Series is designed to adapt to a wide range of force measurement applications. With a comprehensive selection of optional accessories – including precision tips, extension rods, grip handles, and test stand adapters – you can tailor your setup for handheld or mounted use. Each accessory is engineered for durability and compatibility, ensuring seamless integration and reliable performance across various testing environments. Whether you're measuring tension, compression, or peak force, the right accessory makes all the difference.

#### Accessories List ( Indicates an accessory included with the gauge.)

Adapters	
Flat Adapter, 110 lbf	. SPK-FMG-011A
Flat Adapter, 550 lbf	. SPK-FMG-011B
Hook, 50 lbf	. SPK-FMG-012A
Hook, 110 lbf	. SPK-FMG-012B
Hook, 550 lbf	. SPK-FMG-012C
Chisel Point, 110 lbf	SPK-FMG-008A
Chisel Point, 550 lbf	SPK-FMG-008B
Point Adapter, 110 lbf	SPK-FMG-009A
Point Adapter, 550 lbf	SPK-FMG-009B
Notch Adapter, 110 lbf	SPK-FMG-010A
Notch Adapter, 550 lbf	SPK-FMG-010B
Load Cell Shaft Protector	SPK-DFG3-001
#10-32 to 5/16-18 Adapter	P-10020

Extension riods
Extension Rod, 6" (152mm), #10-32 SPK-FMG-013A
Extension Rod. 6" (152mm). 5/16-18 SPK-FMG-013B

Extension Rods

Carrying & Storage	
Carrying Case	. ◆SPK-DF-118

Handles	
Handle Assembly, DF3	SPK-DF3-HANDLE
Handle Assembly, DF3 Series	6873
Grip Handle, MSC/FCE Rev. A	NC002825
Screw, Flat Head Socket Cap Rev	E08-257
Pistol Grip	SPK-FMG-141

Grips 8	& Ho	oks
0	Har	

To all Olement Adams

Swivel Hook, 50 lbf	.ML3867
Swivel Hook, 110 lbf	ML3850
Swivel Hook, 225 lbf	ML3869
Swivel Hook, 550 lbf	ML3868
Hook, LatchNC	002500

rest Sta	na Adapters	
MT150 S	eries, 150lbf	SPK-MT-001
MT500 S	Series, 500 lbf	SPK-MT-0004
LTCM Se	ries, 100 lbf	Not Required
TT Teste	r, 500 lbf	NC002582

#### Mounting & Coupling Adapters

Kit, DF Metric Couplers #10-32_M6;	SPK-TCM-033
5/16-18_M6; M8_5/16-18	
Coupling #10-32 Female to M6x1mm Fe	emale Rev –

NC002652

Coupling 5/16-18 Female to M6x1mm Female Rev -........
NC002658

Adapter, Threaded, M8x1.25 to 5/16x18, DFG3 . . NC003256

#### Power & Connectivity

Battery Charger, Universal, with Cable ◆SPK-DF3-UNIV
Cable, USB-C/USB-A, 3 FT, Black
Adapter, Wall Mount, AC/DC, 5V, 5W, USB-A6886
Kit, AC Adapter for P/N 68866887

#### Notes

Accessories are capacity dependent.

Accessories used with capacities below 110 lbf (500N) will generally have a #10-32 thread.

Accessories for higher capacities generally have a 5/16-18 thread.



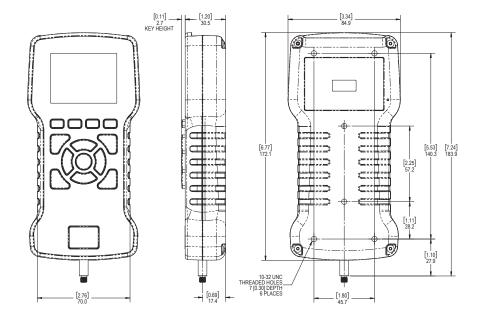


# **Dimensions and Specifications**

# **Specifications**

Accuracy
Instrument Weight

# **Dimensions**













No part of this document may be reproduced or modified in any form or by any means, electronicor mechanical, without express written permission from AMETEK STC.

©2018 AMETEK Incorporated



