

Fluke Process Tools Accessories

Technical Data

Pressure pumps

700PTP-1 Pneumatic Test Pump

Description: The Fluke 700PTP-1 pneumatic test pump is capable of supplying pressures up to 600 psi, 40 bar.

Application: For use with 750P series pressure modules or test gauges. Can directly connect modules or test gauges to the reference port consolidating two separate pieces when performing pressure calibration and testing. Can also be used with 717 pressure calibrators. Ideal for calibrating pressure transmitters, pressure switches and pressure gauges up to 600 PSI/40 bar.

Features:

- Pump can be easily cleaned without disassembly.
- The vernier can be used as a stand-alone low pressure calibration source
- The Fluke 700PTP-1 has two pressure ports allowing simultaneous connection:
- 1/4 in NPT female fitting on top for the reference gauge or pressure module
- 1/8 in NPT female fitting on the side for the unit under test
- Adjustable stroke length can be set to limit the pressure per stroke

Included:

- 1/4 in NPT male to 1/4 in BSP female
- 1 meter of hose
- (2) 1/8 in NPT male quick connects
- 1/8 NPT female to 1/4 in BSP female
- Seal Kit
- Instruction sheet

Size: Length 8.7 in (220 mm), width 4.8 in (122 mm), depth 3.5 in (89 mm)

Weight: 1.03 lb (467 g)

Warranty: One year

Material: Wetted materials: aluminum, silicon, neoprene, stainless steel, Buna-N



Fluke 700PTP-1



Fluke 700HTP-2

Fluke 700HTP-2 Hydraulic Test Pump

Description: The Fluke 700HTP-2 is a hand operated hydraulic pressure pump designed to generate calibration pressures up to 10,000 psi/690 bar. Designed for use with Fluke-750P series high pressure modules such as the Fluke-750P09, 750P29, 750P30 and 750P31.

Application: Ideal for calibration when connected to a Fluke high pressure module via the reference port. The 700HTP-2 uses distilled water or mineral-based hydraulic oil as a source for calibration of high pressure input devices such as pressure transmitters or pressure gauges. Can also be used with Fluke 717 pressure calibrators.

Pressure pumps

Fluke 700HTP-2 Hydraulic Test Pump (continued)

Features:

- Variable size stroke adjustment, allows the user to vary the volume and pressure per stroke
- Integral pressure adjustment vernier knob for fine pressure adjustment.
- Direct connection to pressure modules consolidates two separate pieces into one when performing pressure calibration and testing
- Two 1/4 in NPT pressure ports, one for reference (pressure module or gauge), one for UUT
- Compatible with optional Fluke-700PRV-1 pressure relief valve designed to protect pressure modules from overpressure damage

Note: The user must provide a hose with appropriate end fittings to apply pressure from the UUT port to the calibration unit under test such as the Fluke-700HTH-1 hose kit.

Included:

- 1/4 in NPT to 1/4 in NPT adapter to connect the reference gauge port on the pump body to the 1/4 NPT female fitting on Fluke 750P29, P30, and P31 pressure modules.
- (2) 1/4 in NPT male to 1/4 in BSP Female adapters
- 1/4 in NPT Tee (installed)
- Instruction sheet

Size: Length 9.5 in (241 mm), width 6.1 in (155 mm), depth 2.6 in (66 mm)

Weight: 1.29 lb (.58 kg)

Warranty: One year

Material: Wetted materials: 303 stainless steel, aluminum, polyurethane, PTFE, nitrile, and nylon

Fluke-700PTPK2 Premium Pneumatic Test Pump Kit

- Combine with any Fluke-700G Series Gauge, 1,000 psi (69 bar) or less, to

make a complete pressure testing kit

- Generate pressure up to 600 psi, 40 bar with the 700PTP-1 test pump
- Connect the 700G Series gauge directly to the included PTP-1 hand pump with premium no tools required adapter
- Includes 700TTH 5K premium no tools required transmitter test hose kit and adapters for connecting to the pressure device to be tested
- Hard case protects pump and gauge and allows gauge to remain connected to the pump

700TTH 5K Premium Transmitter Test hose Kit

- 5,000 psi rating test hose and adapters
- Included 1/8 in NPT connection for permanent mount to a calibrator or test pump
- No tools required 1/4 in NPT male connector for easy connection to a transmitter

700M20TH Premium Transmitter Test Hose Kit

- 5,000 psi rating
- Includes 1/8 in NPT connection for permanent mount to a calibrator or test pump
- No Tools Required Male connector for easy connection to Female M20 connections

Fluke-700HTPK2 Premium Hydraulic Test Pump Kit

- Combine with any Fluke-700G Series Gauge, 1,000 psi (69 bar) range or greater, to make a complete pressure testing kit
- Generate pressure up to 10,000 psi, 690 bar with the included 700HTP-2 test pump
- Connect the 700G Series gauge directly to the HTP-2 hand pump with premium no tools required adapter
- Includes 700TTH 10K premium no tools required transmitter

test hose kit and adapters for connecting to the pressure device to be tested

- Hard case protects pump and gauge and allows gauge to remain connected to the pump

700TTH 10K Premium Transmitter Test Hose Kit

- 10,000 psi rating test hose and adapters
- Included 1/8 in and 1/4 in NPT connection for permanent mount to a calibrator or test pump
- No tools required 1/4 in NPT male connector for easy connection to a transmitter

700MTH Premium Transmitter Test Hose Kit

- 5,000 psi rating
- Includes 1/8 in NPT connection for permanent mount to a calibrator or test pump
- No Tools Required Male connector for easy connection to 1/4 in female metric/BSP

Fluke 700PRV-1 Pressure Relief Valve Kit

Description: The Fluke 700PRV-1 consists of a relief valve settable from 725 to 5800 PSI (50 to 200 bar) to be used with the 700HTP-2 Hydraulic Test Pump. The 1/8 in NPT male thread to fits directly into the Fluke 700HTP-2 pressure pump.

50 pressure modules

Fluke offers a family of 50 Pressure Modules to address gage, differential, absolute, vacuum, and dual (compound) applications to 10,000 psi/700 bar.

For detailed specifications visit www.fluke.com/750P

Pressure and calibration accessories

Fluke 700PRV-1 Pressure Relief Valve Kit (continued)

Application: To be used with the 700HTP-1 Hydraulic Test Pump. The 700PRV-1 uses a multi-turn adjustment screw to set preload on internal disc springs. This relief valve will protect the most commonly used Fluke pressure modules and pressure instruments from damage due to accidental over-pressurization.

Features:

- Adjustable from 725 to 5800 PSI (50 to 200 bar)
- Preset at 2,900 psi/200 bar
- Repeatability to 10 % of nominal setting.
- Installs directly into the 700HTP-2 pump

Included:

- One adjustable relief valve
- Instruction sheet

Size: 1.52 in by 0.62 in diameter (38 mm by 16 mm diameter)

Weight: 1.6 oz (46 g)

Warranty: One year

Material: Type 303 stainless steel

Fluke 700HTH-1 Hydraulic Test Hose

Description: The Fluke 700HTH-1 hydraulic test hose is a 10,000 psi, 690 bar working pressure test hose that features stainless steel and nylon construction for use in connecting a Fluke-700HTP-2 or other hydraulic test pump to a unit under test.

Application: The Fluke 700HTH-1 enables connection to both a Fluke pressure module and a calibration unit under test from a Fluke 700HTP-2 hydraulic test pump simultaneously. 700HTH-1 is compatible with water and non-corrosive oil.

Features:

- Hose and fittings to connect directly to the Fluke 700HTP-2 test pressure port



Fluke 700HTH-1

- Includes plugs and caps to eliminate fluid loss in hose, eliminates the need to re-prime the hose.
- Self-sealing fittings with easy finger tight connections.
- Low volumetric expansion and a negligible pressure drop at rated pressures

Included:

- Hose with (2) 1/4 in NPT female output connections
- (2) adapters that to convert 1/4: NPT female to 1/4 in NPT male (include sealing caps)
- 1/4 in NPT female to 1/4 in BSP male adapter
- Instruction sheet

Minimum bend radius: 60 mm/ 2.36 in.

Working temperature: - 40 °C to + 120 °C, (- 40 °F to + 250 °F)

Material: Nylon, stainless steel, zinc, plated steel, and nitrile

Dimensions: 0.84 m (33 in) long without adapter fittings

Weight: 0.910 oz (412 g)

Warranty: One year

Fluke 700LTP-1 Low-pressure Test Pump

Description: The Fluke 700LTP-1 is a hand operated pressure pump designed to generate either vacuum to -13 psi/ -.90 bar or pressures to 100 psi/ 6.9 bar. The Fluke 700LTP-1 has two pressure ports with quick fit connectors.

Fluke 700LTP-1

Test hoses are terminated with 1/8 in NPT female fittings that can be adapted using the BSP/ISO adapters.

Application: For use with 750P series pressure modules and 717 pressure calibrators. Ideal for low pressure applications requiring accurate low pressure testing.

Features:

- Pump can be easily cleaned without disassembly.
- Adjustable pressure release valve with slow-bleed capability
- Allows the slow release pressure at a controlled rate
- Slim design, easy to carry and use
- Quick fit connectors, one for the reference port for connection to a Fluke 750 series pressure module and one to connect to a unit under test

Included:

- (2) adapters to convert the reference and UUT port hose fitting to 1/4 in BSP female
- Adapter to convert the reference port hose fitting to 1/4 in NPT female for connection to 750P series pressure modules
- One seal kit
- Instruction sheet in English
- 3.5 feet nylon hose
- 1/8 in T-Adapter
- (4) 1/8 in Male quick connect fittings

Pressure and calibration accessories

Fluke 700LTP-1 Low-pressure Test Pump (continued)

Size: Length 5.9 in (150 mm), width 4 in (100 mm), depth 1.25 in (32 mm)

Weight: 0.5 lb (226 g) (pump only)

Warranty: One year

Material: Aluminum, silicon, neoprene, stainless steel, Buna-N

Fluke 700ILF In-line Filter

For use with: Fluke 717 and 718 Pressure Calibrators

Description: Use to isolate calibrator from contact with liquids. Input is 1/8 in NPT female. Output is 1/8 in NPT Male.

Application: The Fluke 700ILF can be used to isolate the calibrator from incidental contact with fluids present in the gas

medium being measured. Particularly useful with the 718 calibrator to help keep moisture or oils from contaminating the on-board pump. The 1/8 in NPT male threaded output threads directly into the 717 and 718 calibrators. Maximum pressure is 100 psi. Burst pressure is 375 psi. Maximum flow is 10 SCFM and filtration to 1 micron.

Included: One disposable filter

Dimensions: 2.125 in x 1.875 in

Weight: 4.1 oz (115g)

Fluke 71XTrap Liquid and Dirt Trap

For use with: Fluke 718, 719 and 719Pro Pressure Calibrators

Description: Use to help mitigate the risk of accidental exposure to moisture and dirt in at-risk applications. Working pressure to 300 PSI.

Dimensions: 2.61 in x 1.97 in x 1 in

Weight: 5.15 oz (146 g)

Fluke 700PCK Pressure Calibration Kit

For use with: Fluke 700 and 750 Series Pressure Modules.

Description: The Fluke 700PCK makes it possible to calibrate your pressure modules at your facility using your own precision pressure standards.

Application: When installed on your PC, the Windows®-based software easily steps you through an as-found verification, a calibration adjustment, and an as-left verification. Calibration data is captured for import to your database. A PC running Windows XP or later is required, along with a precision pressure standard with an uncertainty of less than 1/4 that of the pressure module being verified.

Included: The kit consists of a power supply, an interface adapter, appropriate cables, and Fluke 700PCK Version 4 Pressure Module Calibration software.

Warranty: One year

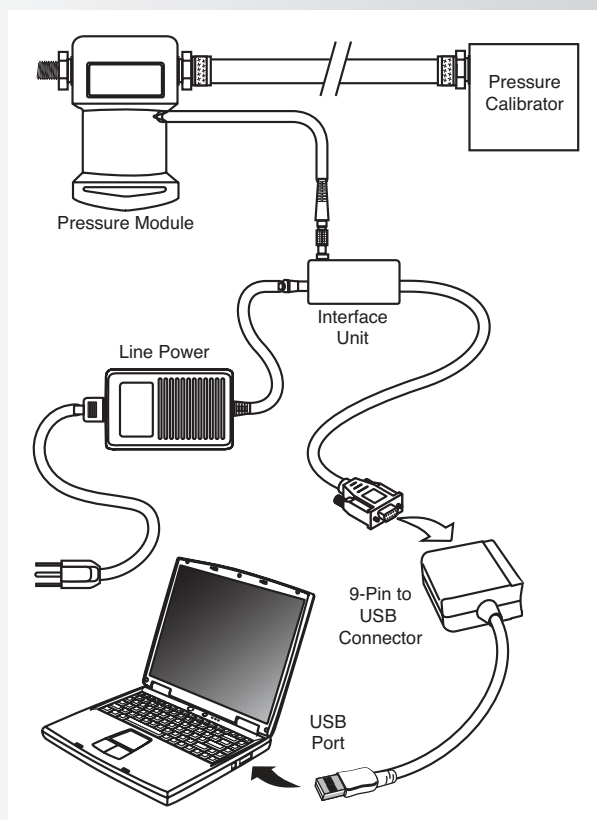
Fluke 787CAL Calibration Module

For use with: Fluke 787 ProcessMeter™ and MET/CAL Software.

Description: The Fluke 787CAL module permits users and service facilities to perform automated MET/CAL verifications and calibrations of the Fluke 787 ProcessMeter™.

Application: The calibration module provides a 9 volt dc supply to the 787. At the same time, it facilitates RS232 communication from the PC running MET/CAL to the 787 over the battery leads of the 787.

Included: A calibration manual, MET/CAL procedures, and an interface module that permits serial communication between a 787 and a PC.



Fluke 700PCK

Pressure and calibration accessories

Fluke 787CAL Calibration Module (continued)

Note: An installation of MET/CAL Calibration Software plus appropriate calibration equipment must be provided by the user.

Required Calibration Equipment for use with the Fluke 787CAL Calibration Accessory:

Fluke Model 5500 or 5520 Calibrator

HP3458 DMM or **HP34401 DMM,

Fluke 5440A-7002 Test Lead set

Fluke RS43 Null Modem Cable

Personal Computer, 486 or better,

IBM compatible

Fluke MET/CAL Calibration Software, Version 6.0 or later

**HP34401 for use only with 5520A only
5500A requires HP3458 DMM

Fluke 700-IV Current Shunt

For use with: Fluke 701, 702, 740, and 750 Series Documenting Process Calibrators.

Description:

Conversion factor:

10 mV = 1 mA

Accuracy (% of input, 1 year):

0.025 %

Input current: 0 to 55 mA

Input resistance: 250Ω, nominal

Output resistance: 10Ω, nominal

Accuracy specification applies from +18°C and 28-50°C

Maximum input voltage: 30V dc

Application: Use the Fluke 700-IV Current Shunt to calibrate and troubleshoot mA/mA devices. On a 74X or 75X Documenting Process Calibrators, Source mA and Measure V dc. The custom units

function of the calibrator automatically provides the correct conversion, and directly displays/captures the current in mA.

Included: Shunt, instruction sheet.

Warranty: One year

Fluke 700TC1 Thermocouple Mini-Plug Kit (10 types)

For use with: Fluke 75X or 72X Series Process Calibrators, Fluke 714 Thermocouple Calibrator.

Description: A kit of 10 mini-plug connectors supporting each of the thermocouple types supported by the Fluke 700 or 740 Series Documenting Process Calibrators.

Application: Terminate user-supplied thermocouple wire to permit connection to a process calibrator.

Included mini plugs

Type J (black), one

Type K (yellow), one

Type T (blue), one

Type E (purple), one

Type R/S (green), one

Type B or Cu (white), one

Type L (J-DIN) (blue), one

Type U (T-DIN) (brown), one

Type C (red), one

Type N (orange), one

Material: Thermoplastic plug bodies; contacts of appropriate thermocouple metallurgy.

Warranty: One year

Fluke 700TC2 Thermocouple Mini-Plug Kit Type J, K, T, E, R/S

For use with: Fluke 75X or 72X Series Process Calibrators, Fluke 714 Thermocouple Calibrator.

Description: A kit of seven mini-plug connectors supporting six of the most popular thermocouple types.

Application: Terminate user-supplied thermocouple wire to permit connection to process calibrator.

Included mini plugs

Type J (black), two

Type K (yellow), two



Fluke 700TC2



Fluke 700TC1



Fluke 700-IV

Process calibrator accessories

Fluke 700TC2 Thermocouple Mini-Plug Kit (continued)

Type T (blue), one

Type E (purple), one

Type R/S (green), one

Material: Thermoplastic plug bodies; contacts of appropriate thermocouple metallurgy.

Warranty: One year

BP7240 Li-Ion Battery Pack

For use with: Fluke 750 Series Documenting Process Calibrators.

Description: 7.2V 30 watt hour rechargeable Li-Ion battery pack.

Application: Provides typical 16-hour battery life when used in 750 Series Calibrators.

Included: One battery pack.

Dimensions: 1 in x 2.75 in x 6 in (25.4 mm x 69.8 mm x 152.4 mm)

Weight: 9.44 oz/267g

Warranty: One year

BC7240 Battery Charger/ Eliminator

For use with: Fluke 750 Series Documenting Process Calibrators.

Description: 7.5V dc battery eliminator for operation of calibrator from 0 to 240 volt ac line.

Application: Universal battery eliminator/charger with adapters for most WW power receptacles.

Dimensions: 2.5 in x 3 in x 5.75 in (63.5 mm x 76.2 mm x 146 mm);
72 in (1.8m) cord

Weight: .68 lb/308 g

Warranty: One year

BP7235 NiMH Battery Pack

For use with: Fluke 700 or 740 Series Documenting Process

Calibrators, requires BC7217 charger

Description: 7.2 V 3500 mA-hour rechargeable NiMH battery pack.

Application: Provides typical 16 hour battery life when used in 700 or 740 calibrators.

Included: One battery pack

Dimensions: 7.1 in x 2.2 in x 0.9 in (150 mm x 56 mm x 22 mm)

Weight: 11 oz/310g

Warranty: One year

BC7217 Battery Charger (74X)

For use with: BP7217 NiCd and BP7235 NiMH Battery Packs.

Description: Battery charger UL, CSA, MITI, DEMKO, FINKO, SEMKO recognized.
CE compliant. EMI per FCC part 15 Class B.

Application: Replaces BC7210 Battery Charger. Line voltage 100 to 250V ac, frequency 50 to 60 Hz line.

Included: Battery charger base, power supply.

Dimensions:
Power supply: 3.9 in x 2.6 in x 1.6 in (100 mm x 66 mm x 41 mm);
72 in (1.8m) cord

Charger base: 4.6 in x 4.1 in x 2.7 in (116 mm x 104 mm x 58 mm)

Weight: 1.7 lb (0.78 kg)

Warranty: One year

C700 Hard Carrying Case (700 Series)

For use with: Fluke 74X, or 75X Series Documenting Process Calibrators.

Description: Hard carrying case with custom-cut foam liner.

Application: Cutouts to hold one documenting process calibrator, one Fluke Pressure Module, one Battery Charger, one spare Battery Pack, and test leads.



Fluke BP7240



Fluke BC7240



Fluke BP7235

Pressure and calibration accessories

C700 Hard Carrying Case (700 Series) (continued)

Material: Exterior: Blow-molded charcoal gray polyethylene with textured surface. Interior: Black, die-cut polyurethane foam.

Handle: Molded polyethylene.

Latches: Zinc-plated steel.

Dimensions: 18.5 in x 15.6 in x 5.0 in (47 cm x 40 cm x 14 cm)

Weight: 2 lb (0.9 kg)

Warranty: One year

C781 Soft Carrying Case

For use with: Fluke 700 or 740 Series Documenting Process Calibrators.

Description: Rugged, close-fitting fabric carrying case for documenting process calibrator. A separate, detachable pouch holds test leads and accessories.

Application: Designed to be worn on a belt. Remove the calibrator from the C781 for use.

Dimensions:

Primary compartment:
10.3 in x 5.6 in x 1.8 in
(26 cm x 14 cm x 5 cm).

Detachable accessory pouch: 7.5 in x 5.6 in x 1.0 in
(19 cm x 14 cm x 3 cm)

Weight: 8 oz (230g)

Warranty: One year

C789 Soft Carrying Case

For use with: Fluke 701, 702 and 740 Series Documenting Process Calibrators.

Description: Rugged, four-compartment fabric carrying case for documenting process calibrator and accessories. A second large compartment in the rear of the case has space to store battery charged and other small hand tools.

Application: Front access flap allows the calibrator to be used while in the C789 Case. Designed to be carried over one shoulder.

Included: Case and detachable shoulder strap.

Dimensions: 11.8 in x 10.0 in x 3.3 in (30 cm x 25 cm x 8 cm)

Weight: 1.5 lb (700g)

Warranty: One year



Fluke C789, C700, C781



Fluke C700

General-purpose accessories

	753/ 744	743B/ 744	741B	725/ 726	721/ 721Ex	719/ 719Pro	718	712B	714B	715	717	787/ 789	87V	705/ 707
Fluke 750Pxx Pressure Modules ¹	•	•	•	•	721	•	•				•			
BP7235 NiMH Battery Pack		•	•											
BP7240 Li-Ion Battery Pack	•													
BC7240 Battery Charger/Eliminator	•													
BC7217 Battery Charger		•	•											
Fluke 700TCI and TC2 Thermocouple Plug Kits	•	•	•	•					•					
80CJ-M and 80CK-M Mini-Connectors	•	•	•	•					•					
80PK Thermocouple Probes (all)	•	•	•	•					•					
Fluke 700-IV Current Shunt	•	•	•							•		•	•	
Fluke 700PMP Pressure Pump	•	•	•	•	•						•			
Fluke 700PTP-1 Pneumatic Test Pump	•	•	•	•	•						•			
Fluke 700HTP-2 Hydraulic Test Pump	•	•	•	•	•						•			
Fluke 700LTP-1 Low Pressure Test Pump	•	•	•	•	•						•			
700TTH 5K Premium Transmitter Test Hose Kit	•	•	•	•	•	•	•				•			
700TTK 10K Premium Transmitter Test Hose Kit	•	•	•	•	•	•	•				•			
700MTH Premium Transmitter Test Hose Kit	•	•	•	•	•	•	•				•			
700M20TH Premium Transmitter Test Hose Kit	•	•	•	•	•	•	•				•			
Fluke-700PTPK2 Premium Pneumatic Test Kit	•	•	•	•	•						•			
Fluke-700HTPK2 Premium Hydraulic Test Kit	•	•	•	•	•						•			
Fluke 787CAL Calibration Kit												787		
80PK-IR Infrared Probe	•	•	•	•					•					
80TK Thermocouple Module	•	•	•	•						•		•	•	
80T-150U Universal Temperature Probe		•	•							•		•	•	•
TL220/222/224/226/228 Lead Sets	•	•	•	•						•	•	•	•	•
TL70A and Y8140A Lead Sets	•	•	•	•						•	•	•	•	•
AC220 and AC280 Clips	•	•	•	•						•	•	•	•	•
TP220 Industrial Test Probes	•	•	•	•						• ₂	•	• ₃	• ₃	•
i410 AC/DC Current Clamp	•	•	•							•	•	•	•	
i1010 AC/DC Current Clamp	•	•	•							•	•	•	•	•
C10 Holster and C12A Case														•
C25/C28/C90/C100/C800 Cases								•	•	•	•	•	•	
C781 Soft Carrying Case		•	•											
C789 Soft Carrying Case		•	•											
C700 Hard Carrying Case	•	•	•											
C799 Soft Case	•	•	•											
80K-6 and 80K-40 High Voltage Probes	•	•	•									•	•	
PV350 Pressure Vacuum Module	•	•	•							•		•	•	•

¹ Ask for Data Sheet 6001669

² DC current only

³ 20A ac minimum

Ordering information

Model	Item	Description
Fluke-700PTP-1	2811774	Pneumatic test pump, -12 to 600 PSI
Fluke-700PRV-1	2811808	Pressure relief valve for 700HTP
Fluke-700HTH-1	2811795	Hydraulic test hose, 10,000 PSI
Fluke-700LTP-1	2811763	Low pressure test pump, -12 to 100 PSI
Fluke-700HTP-2	4096855	Hydraulic test pump, 0-10,000 PSI
Fluke-700PTPK2	4623306	Premium pneumatic test pump kit, -12 to 600 PSI
Fluke-700HTPK2	4623314	Premium hydraulic test pump kit, 0 to 10,000 PSI
Fluke-700TTH5K	4623323	Premium pressure transmitter test hose, 5,000 PSI
Fluke-700TTH10K	4636393	Premium pressure transmitter test hose kit, 10,000 PSI
Fluke-700M20TH	4623338	Premium M20 pressure test hose kit, 5,000 PSI
Fluke-700MTH	4623345	Premium metric pressure test hose kit, 5,000 PSI
Fluke-700ILF	1566730	In-line Filter, 1 Micron, 100 PSI for Fluke 717 and 718
Fluke-71XTrap	4380747	Liquid and Dirt Trap for use with: Fluke 718, 719 and 719Pro Pressure Calibrators
Fluke-700PCK	100062	Pressure Calibration Kit for use with Fluke 700P and 750P Series Pressure Modules
Fluke-787CAL	647021	Calibration Module for use with the Fluke 787
Fluke-700-IV	202561	Current Shunt for use with Fluke 701, 702, 740, and 750 Series Documenting Process Calibrators
Fluke-700TC1	620119	TC Mini-Plug kit (ten types)
Fluke-700TC2	620127	T/C Mini-Plug kit type J,K,T,E,R,
BP7240	4022220	Li-Ion Battery Pack for use with Fluke 750 Series Documenting Process Calibrator
BC7240	4022655	Battery Charger/Eliminator For use with: Fluke 750 Series Documenting Calibrator
BP7235	668225	NiMH Battery Pack for use with Fluke 700 or 740 Series Documenting Process Calibrators
BC7217	668210	Battery Charger (740) for use with BP7217 NiCd and BP7235 NiMH Battery Packs
C700	606928	Hard carrying case for Fluke 740 or 750 Series Documenting Process Calibrator
C781	619988	Soft Carrying Case for Fluke 700 or 740 Series Documenting Process Calibrators
C789	946694	Soft Carrying Case for Fluke 701, 702 and 740 Series Documenting Process Calibrators

Fluke. *Keeping your world up and running.®*

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