

# 5520A-SC1100 Option for the 5520A

Calibrating even your highest bandwidth oscilloscopes is now easy. The SC1100 now enables the versatile 5520A to calibrate your oscilloscopes fully up to 1.1 GHz.

# Calibrate even your highest bandwidth oscilloscopes... and much, much more

If you need to calibrate oscilloscopes, plus a broad array of other electrical test tools, the new SC1100 option for the versatile workhorse 5520A Multi-Product Calibrator makes it faster, easier and more cost-effective. That's because the new SC1100 now enables the 5520A to calibrate all of your oscilloscopes up to 1.1 GHz with rise times to 300 ps — even 125 ps with the 5800A/TDP tunnel diode pulser option.

That represents what is likely the highest level of oscilloscopes in your workload — along with the other workload the 5520A addresses.

Nothing comes close to the 5500A/5520A Multi-Product Calibrator family for workload coverage, flexibility and ease-of-use. They are rugged, portable instruments, ideal for use both in the field and on the bench. And they are also affordable, allowing you to match your configuration to your workload and add options as your workload changes and grows.

# **Technical Data**

Plus, no matter where you are in the world, you can rest assured that Fluke is there for calibration, training, and applications support. It all adds up to a superior solution to your calibration needs. You would expect nothing less from the world leader in calibration.

#### What is the 5520A-SC1100?

The 1.1 GHz 5520A-SC1100 is a plug-in module that fits inside the 5520A Multi-Product Calibrator. It can be ordered factory installed with a new calibrator, or added later at a Fluke service center for an additional installation and calibration charge.

The 5520A-SC1100 option adds powerful new functionality to the 5520A:

- Voltage source (dc and square wave) for vertical amplitude calibration.
- Edge source a variable 300 ps fast edge with low aberrations — for verifying dynamic response.
- Leveled sine wave generator to 1.1 GHz, with excellent flatness and amplitude accuracy – for verifying bandwidth.
- Time marks in sawtooth, square, 20% pulse and sine wave forms from 5 seconds to 1 ns with 2.5 ppm frequency stability and low jitter — for horizontal time base calibration.
- Input resistance, capacitance and overload testing.
- Wave form generator with square, sine, triangle wave forms — for extended test capability.
- TV trigger for NTSC, SECAM, PAL and PAL-M with line marker.

- External trigger output for time marks, fast edge, voltage and pulse modes.
- Pulse generator with variable width and period to verify trigger pulse width responses and horizontal deflection.
- External clock reference.

#### Operating the SC1100 is easy

You access the SC1100's capabilities simply by selecting "Scope" mode on the calibrator's front panel. All outputs are conveniently located on the calibrator's output block to make hookups easy and to minimize the errors contributed by cabling. There are no fragile, bulky pulse heads to contend with.

#### The 5500A/5520A **Family: Unmatched** workload coverage

The original 5500A Multi-Product Calibrator created a whole new class of multi-product calibrators. It was designed to provide a portable, reasonablypriced solution for calibrating a large segment of your electrical test tools workload, including:

- 3½ and 4½ digit multimeters, both handheld and bench models.
- thermocouple and RTD thermometers.
- chart recorders.
- data loggers.
- analog volt/ohm/amp meters.
- panel meters.
- wattmeters.
- power harmonic analyzers.
- process calibrators.
- current clamps and clamp
- oscilloscopes to 600 MHz.
- and more.

The 5520A builds on the 5500A's capabilities for even broader workload coverage including:

- 6½ digit multimeters.
- current to 20A.
- pressure measurement.
- temperature.
- oscilloscopes to 1.1 GHz.

Add to that a wide selection of accessories like 5500/CAL calibration software, the 5500A/EP enhancement package, 5500A/ COIL, test lead kit, lab cart, and transit case, and you have more ways to match your calibration needs — and your budget — to the calibrator that fits best.

#### **Highly portable, rugged** and easy to use

The 5500A and 5520A are as much at home on the road performing on-site calibrations as they are in the lab. They are small, rugged, temperature tolerant and easy to transport, packing the equivalent of a complete calibration bench into a compact 44 lb (20 kg) package.

#### The right tools for meeting ISO 9000

There is more to meeting the requirements of ISO 9000 and other quality standards than having the right calibrator. You can rely on Fluke to provide you with a complete solution.

Automation and management software. Fluke's MET/CAL® Plus and 5500/CAL Calibration Software provide everything you need to document and control your calibration procedures, perform automated calibrations quickly and accurately, and report the results. You can also use these powerful software packages to document and report on the assets you use, their location, repair history, calibration history, due dates and traceability, and more.

**Calibrators.** If your workload includes enough oscilloscopes to warrant a dedicated calibrator, Fluke offers the 5820A Oscilloscope Calibrator. It calibrates oscilloscopes up to 600 MHz or, with its high bandwidth option, up to 2.1 GHz. Fluke also provides a complete range of multifunction calibrators, including the world standard 5700A and the most accurate calibrator available, the 5720A. Temperature calibration solutions include the 500 Series Dry-Block Calibrators and the HP 34420/PRT/SPRT NanoVolt/Micro-Ohm Meter. And when you need the best standards lab meter, Fluke's version of the HP 3458/HFL meter has been customized with special features for standards lab applications.

**Standards.** No measurement is complete until you can prove it's traceable to national standards. Fluke provides a complete range of working, transfer and primary standards to help.

Support. Fluke can back up your calibration capability with a wide range of service and support that help keep your calibration equipment calibrated and repaired.

**Training.** Fluke can help you learn how to write procedures, manage measurement assets, set up or manage a lab, and more. Our wide range of training classes, application notes and other training materials are designed to help you get the most out of your investment in Fluke equipment and software.



# 5520A-SC1100 Specifications

These specifications apply to the 5520A-SC1100 Oscilloscope Calibration Option. General specifications for the 5520A can be found in the "5500A/5520A Extended Specifications." The specifications are valid when the 5520A is operated under the conditions specified in the operator's manual and has completed a warmup period of at least twice the length of time the calibrator was powered off, up to a maximum of 30 minutes.

## **Volt function specifications**

| Volt Function   |  | DC Signal                                |                                | Square Wave Signal <sup>1</sup> |  |
|---|--|--|--------------------------------|---------------------------------|--|
| Load  |  | into 50 $\Omega$                         | into 1 M $\Omega$              | into 50 $\Omega$                | into 1 M $\Omega$                          |
| Amplitude Characteristics   |  | -  |                                |                                 |  |
| Range   |  | 0 V to ±6.6V                             | 0 V to ± 130V                  | ±1 mV to ±6.6 V p-p             | ± 1 mV to ± 130V p-p                       |
|   | Range  |  | Reso                           | lution                          |  |
| Resolution  | 1 mV to 24.999 mV<br>25 mV to 109.99 mV<br>110 mV to 2.1999V<br>2.2V to 10.999V<br>11V to 130V | 1 μV<br>10 μV<br>100 μV<br>1 mV<br>10 mV |                                |                                 |  |
| Adjustment Range  |  | Continuous                               |                                |                                 |  |
| 1-Year Absolute Uncertainty, tcal $\pm$ 5°C   |  | ± (0.25% of output<br>+ 40 μV)           | ± (0.05% of output<br>+ 40 μV) | ± (0.25% of output<br>+ 40 μV)  | ± (0.1% of output<br>+ 40 μV) <sup>2</sup> |
| Sequence  |  | 1-2-5 (e.g., 10 mV, 20 mV, 50 mV)        |                                |                                 |  |
| Square Wave Freque  | ency Characteristics   |  |                                |                                 |  |
| Range   |  | 10 Hz to 10 kHz                          |                                |                                 |  |
| 1-Year Absolute Uncertainty, tcal ± 5°C   |  | ± (2.5 ppm of setting)                   |                                |                                 |  |
| Typical Aberration<br>(from 50% of leading/trailing edge)<br>25 mV to 130V: within 4 μs<br>10 mV to 25 mV: within 8 μs<br>1 mV to 10 mV: within 14 μs |  |  | < (0.5% of ou                  | tput + 100 μV)                  |  |

<sup>&</sup>lt;sup>1</sup> Positive or negative, zero referenced square wave.

 $<sup>^2</sup>$  Above 1 kHz,  $\pm$  (0.25% of output + 40  $\mu V$ ). Assumes connectors and cables are in good condition.

# **Edge function specifications**

| Edge Characteristics into 50 $\Omega$ |   | 1-Year Absolute Uncertainty,<br>tcal ± 5 °C |
|---------------------------------------|---|---|
| Amplitude                             |   |   |
| Rise Time                             | < 300 ps  | +0/-100 ps                                  |
| Range (p-p)                           | 5.0 mV to 2.5V  | ± (2% of output + 200 μV)                   |
| Resolution                            | 4 digits  |   |
| Adjustment Range                      | ± 10% around each sequence value (indicated below)  |   |
| Sequence values                       | 5 mV, 10 mV, 25 mV, 50 mV, 60 mV, 80 mV, 100 mV, 200 mV, 250 mV, 300 mV, 500 mV, 600 mV, 1V, 2.5V |   |
| Other Edge Characteristics            |   |   |
| Frequency Range                       | 1 kHz to 10 MHz <sup>1</sup>  | ± (2.5 ppm of setting)                      |
| Typical Jitter, Edge to Trigger       | < 5 ps (p-p)  | _   |
| Leading Edge Aberrations              | within 2 ns from 50% of rising edge   | < (3% of output + 2 mV)                     |
|                                       | 2 to 5 ns   | < (2% of output + 2 mV)                     |
|                                       | 5 to 15 ns  | < (1% of output + 2 mV)                     |
|                                       | after 15 ns   | < (0.5% of output + 2 mV)                   |
| Typical Duty Cycle                    | 45% to 55%  |   |

 $<sup>^{\</sup>rm l} Frequency$  range above 2 MHz has rise time specification  $< 350~{\rm psec}$ 

# Leveled sine wave function specifications (<600 MHz)

| Leveled Sine Wave  | Frequency Range                      |                                |                              |                              |  |
|--|--------------------------------------|--------------------------------|------------------------------|------------------------------|--|
| Characteristics into 50 $\Omega$                             | 50 kHz (reference)                   | 50 kHz to 100 MHz              | 100 MHz to 300 MHz           | 300 MHz to 600 MHz           |  |
| Amplitude Characteristics                                    |                                      |                                |                              |                              |  |
| Range (p-p)  |                                      | 5 mV                           | to 5.5V                      |                              |  |
| Resolution   |                                      |                                | V: 3 digits<br>V: 4 digits   |                              |  |
| Adjustment Range   |                                      | continuousl                    | y adjustable                 |                              |  |
| 1-Year Absolute Uncertainty, tcal $\pm$ 5 $^{\circ}\text{C}$ | $\pm$ (2% of output $+$ 300 $\mu$ V) | ± (3.5% of output<br>+ 300 μV) | ± (4% of output<br>+ 300 μV) | ± (6% of output<br>+ 300 μV) |  |
| Flatness<br>(relative to 50 kHz) <sup>1</sup>                | not applicable                       | ± (1.5% of output<br>+ 100 μV) | ± (2% of output<br>+ 100 μV) | ± (4% of output<br>+ 100 μV) |  |
| Short-term Amplitude Stability                               |                                      | ≤ 1                            | $\leq 1\%^2$                 |                              |  |
| Frequency Characteristics                                    | Frequency Characteristics            |                                |                              |                              |  |
| Resolution   | 10 kHz                               |                                |                              |                              |  |
| 1-Year Absolute Uncertainty, tcal ± 5 °C                     |                                      | ± 2.5 ppm                      |                              |                              |  |
| <b>Distortion Characteristics</b>                            | Distortion Characteristics           |                                |                              |                              |  |
| 2nd Harmonic   | ≤ -33 dBc                            |                                |                              |                              |  |
| 3rd and Higher Harmonics                                     | ≤ -38 dBc                            |                                |                              |                              |  |

 $<sup>^1</sup>$  As measured near oscilloscope bandwidth frequency.  $^2$  Within one hour after reference amplitude setting, provided temperature varies no more than  $\pm$  5°C.



# Leveled sine wave function specifications (>600 MHz)

| Characteristics into 50 $\Omega$           | Frequency Range   |                    |  |
|--|---|--------------------|--|
|  | 50 kHz (reference)  | 600 MHz to 1.1 GHz |  |
| <b>Amplitude Characteristics</b>           |   |                    |  |
| Range                                      | 5 mV to 3.5V  |                    |  |
| Resolution                                 | < 100 mV: 3 digits<br>≥ 100 mV: 4 digits                              |                    |  |
| Adjustment Range                           | Continuously  | y Adjustable       |  |
| 1-Year Absolute Uncertainty, tcal ± 5°C    | $\pm$ (2% of output + 300 $\mu$ V) $\pm$ (7% of output + 300 $\mu$ V) |                    |  |
| Flatness (relative to 50 kHz) <sup>1</sup> | not applicable ± (5% of output + 100                                  |                    |  |
| Short-Term Amplitude Stability             | ≤ 1% <sup>2</sup>   |                    |  |
| Frequency Characteristics                  |   |                    |  |
| Resolution                                 | 100 kHz   |                    |  |
| 1-Year Absolute Uncertainty, tcal ± 5°C    | ± 2.5 ppm   |                    |  |
| <b>Distortion Characteristics</b>          |   |                    |  |
| 2nd Harmonic                               | ≤ -33dBc  |                    |  |
| 3rd and Higher Harmonics                   | ≤ -38 dBc   |                    |  |

# **Time marker function specifications**

| Time Marker into 50 $\Omega$             | 5s to 50 ms  | 20 ms to 100 ns                | 50 ns to 20 ns  | 10 ns            | 5 ns to 1 ns |
|--|--|--------------------------------|-----------------|------------------|--------------|
| Wave Shape                               | spike or square  | spike, square,<br>or 20%-pulse | spike or square | square or sine   | sine         |
| Typical Output Level                     | > 1V pk  | $>$ 1V pk $^1$                 | $>$ 1V $pk^1$   | $>$ 1V pk $^{1}$ | > 1V p-p     |
| Typical Jitter (p-p)                     | <10 ppm  | < 1 ppm                        | < 1 ppm         | <1 ppm           | <1 ppm       |
| Sequence                                 | 5-2-1 from 5s to 2 ns (e.g., 500 ms, 200 ms, 100 ms)       |                                |                 |                  |              |
| Adjustment Range                         | At least ± 10% around each sequence value indicated above. |                                |                 |                  |              |
| Amplitude Resolution                     | 4 digits   |                                |                 |                  |              |
| 1-Year Absolute Uncertainty, tcal ± 5 °C | ± (25 + 1000xt) ppm <sup>3</sup>                           | ± 2.5 ppm                      | ± 2.5 ppm       | ± 2.5 ppm        | ± 2.5 ppm    |

 $<sup>^1</sup>$  Typical rise time of square wave and 20%-pulse (20% duty cycle positive pulse) is < 1.5 ns.  $^2$  Time Marker uncertainty is  $\pm\,50$  ppm off of cardinal points  $^3$  t is time in seconds

# **Wave generator specifications**

| Wave Generator Characteristics                                | Square Wave, Sine Wave and Triangle Wave into 50 $\Omega$ or 1 M $\Omega$   |
|---|---|
| Amplitude   |   |
| Range   | into 1 M $\Omega$ : 1.8 mV to 55V p-p into 50 $\Omega$ : 1.8 mV to 2.5V p-p |
| 1-Year Absolute Uncertainty, tcal $\pm$ 5 °C, 10 Hz to 10 kHz | $\pm$ (3% of p-p output + 100 $\mu$ V)                                      |
| Sequence  | 1-2-5 (e.g., 10 mV, 20 mV, 50 mV)   |
| Typical DC Offset Range                                       | O to $\pm$ ( $\geq$ 40% of p-p amplitude) <sup>1</sup>                      |
| Frequency   |   |
| Range   | 10 Hz to 100 kHz  |
| Resolution  | 4 or 5 digits depending upon frequency                                      |
| 1-Year Absolute Uncertainty, tcal ± 5 °C                      | ± (25 + 1000 x t) ppm   |

<sup>&</sup>lt;sup>1</sup> The DC offset plus the wave signal must not exceed 30V rms.

 $<sup>^1</sup>$  As measured near oscilloscope bandwidth frequency.  $^2$  Within one hour after reference amplitude setting, provided temperature varies no more than  $\pm~5^\circ\text{C}.$ 

# **Pulse generator specifications**

The pulse generator has two pulse width ranges, 35 ns and 500 ns. It is designed for oscilloscope capture function tests, and trigger verification applications.

| Pulse Generator Characteristics          | Positive pulse into 50 $\Omega$                  |
|--|--|
| Typical rise/fall times                  | ≤ 1.5 ns   |
| Available Amplitudes                     | 2.5V, 1V, 250 mV, 100 mV, 25 mV, 10 mV           |
| Pulse Width <sup>1</sup>                 |  |
| Range 4 ns to 500 ns                     |  |
| Uncertainty                              | 5% ± 2 ns  |
| Pulse Period                             |  |
| Range <sup>2</sup>                       | 20 ms to 200 ns                                  |
| Resolution                               | 4 or 5 digits depending upon frequency and width |
| 1-Year Absolute Uncertainty, tcal ± 5 °C | ± 2.5 ppm  |

10 Hz to 10 kHz

Trigger Signal Specifications for the Square Wave Voltage Function

off/1

# **Trigger function specifications**

| 990   |                         |  |      |        |        |
|---|-------------------------|--|------|--------|--------|
| The trigger functions in this section are available at the trigger output connector.                      |                         |  |      |        |        |
| Time Marker Period  | Divi                    | Division Ratio¹ Amplitude into 50Ω (p-p) Typical Rise Time |      |        |        |
| Trigger Signal Specific   | ations for the Pulse Fu | ınction  |      |        |        |
| 20 ms to 150 ns   | of                      | f/1/10/100   | ≥ 1V |        | ≤ 2 ns |
| Trigger Signal Specific   | ations for the Time Ma  | arker Function   |      |        |        |
| 5s to 35 ms   |                         | off/1 ≥ 1V ≤ 2   |      | ≤ 2 ns |        |
| 34.9 ms to 750 ns   | of                      | f/1/10/100   | ≥ 1V |        | ≤ 2 ns |
| 749 ns to 7.5 ns  | 0                       | ff/10/100  | ≥ 1V |        | ≤ 2 ns |
| 7.4 ns to 2 ns  |                         | off/100 ≥ 1V ≤   |      | ≤ 2 ns |        |
| Edge Signal Frequency Division Ratio Typical Amplitude into 50Ω (p-p) Typical Rise Time Typical Lead Time |                         |  |      |        |        |
| Trigger Signal Specific   | ations for the Edge Fu  | nction   | _    |        |        |
| 1 kHz to 10 MHz   | off/1                   | ≥ 1V ≤ 2 ns 40   |      |        | 40 ns  |

≥ 1V

< 2 µs

≤ 2 ns

 $<sup>^{1}</sup>$  Pulse width not to exceed 40% of period.  $^{2}$  Pulse width uncertainties for periods below 2  $\mu s$  are not specified.



## **TV trigger signal specifications**

| TV trigger is provided at the Scope Output connector. |   |  |  |
|---|---|--|--|
| Trigger Signal Type                                   | Parameters  |  |  |
| Frame Formats   | Selectable: NTSC, SECAM, PAL, PAL-M                           |  |  |
| Polarity  | positive or negative  |  |  |
| Amplitude into 50Ω (p-p)                              | Adjustable 0 to 1.5V p-p into 50 ohm load, (± 7% uncertainty) |  |  |
| Line Marker   | Selectable Line Video Marker                                  |  |  |

## Tunnel diode and tunnel diode drive capability

| TD Pulse Drive                  |        | Square wave at 100 Hz to 100 kHz, with variable amplitude of 60V to 100V p-p |
|---------------------------------|--------|--|
| Tunnel Diode Option (250 mV amp | itude) | <125 ps rise time  |

#### Oscilloscope input resistance measurement function specifications

| Scope Input Selected | <b>50</b> Ω              | 1 M $\Omega$     |
|----------------------|--------------------------|------------------|
| Measurement Range    | $40\Omega$ to $60\Omega$ | 500 kΩ to 1.5 MΩ |
| Uncertainty          | 0.1 %                    | 0.1 %            |

#### Oscilloscope input capacitance measurement function specifications

| Scope Input Selected | 1 Meg $\Omega$                        |  |
|----------------------|---------------------------------------|--|
| Measurement Range    | 5 pF to 50 pF                         |  |
| Uncertainty          | ± (5% of input + 0.5 pF) <sup>1</sup> |  |

<sup>&</sup>lt;sup>1</sup> Measurement made within 30 minutes of capacitance zero reference. Scope option must be selected for at least five minutes prior to capacitance measurement or zero.

#### **Overload measurement function specifications**

The Overload test function applies DC or AC (1 kHz square wave) power into the  $50\Omega$  oscilloscope input and monitors the current. A time measurement counter indicates the time duration of the applied overload signal. When the oscilloscope's input protection circuit reacts and opens up the  $50\Omega$  load, the calibrator indication is set to 'off' on the right hand display. In order to prevent oscilloscope's front end damage, a limited amount of energy is applied by a user selectable time limit.

| Source Voltage | Typical 'On' current indication | Typical 'Off' current indication | Typical Maximum Time Limit<br>DC or AC 1 kHz AC |
|----------------|---------------------------------|----------------------------------|---|
| 5V to 9V       | 100 mA to 180 mA                | 10 mA                            | setable 1 to 60 sec                             |



# **Ordering Information**

Model Multi-Product Calibrator 5500A

5500A/3 Multi-Product Calibrator + 300 MHz

Oscilloscope Calibrator Option

Multi-Product Calibrator + 600 MHz 5500A/6

Oscilloscope Calibrator Option

5520A High Performance Multi-Product Calibrator 5520A/3 High Performance Multi-Product Calibrator

+ 300 MHz Oscilloscope Calibrator Option

High Performance Multi-Product Calibrator 5520A/6

+ 600 MHz Oscilloscope Calibrator Option

5520A/1 GHz High Performance Multi-Product Calibrator

+ 1.1 GHz Oscilloscope Calibrator Option

Options\*

5520A-SC1100 1.1 GHz Oscilloscope Calibration Option 5500A-SC600 600 MHz Oscilloscope Calibration Option 5500A-SC300 300 MHz Oscilloscope Calibration Option \*SC options require Fluke Service Center installation/calibration and

include report of calibration.

Accessories

5725A Amplifier (Boosts V\*Hz capability)

5500A/EP Extended Performance Accessory (For automated

calibration of 5½ and 6½ digit multimeters) 50-Turn Current Coil (For calibrating inductive

5500A/COIL clamps and clamp meters)

Comprehensive Test Lead Kit 5500A/LEADS 5500A/CASE Transit Case with wheels

5500A/HNDL Side handle for the 5500A/5520A

TC100 Test Cart

MET/CAL Plus Calibration Software

5500/CAL Calibration Software for the 5500A/5520A

MET/TRACK Asset Management Software

Y5537 Rack Mount Kit

**Product Compatability Chart** 

| Model     | 5520A-SC1100 | 5500A-SC600 | 5500A-SC300 |
|-----------|--------------|-------------|-------------|
| 5520A     | •            | •           | •           |
| 5500A     |              | •           | •           |
| 5800A/TDP | •            | •           |             |

5800A/TDP 125 ps Tunnel Diode Pulser

**Pressure Modules (5520A only)** 

FLUKE-700PCK Pressure Module Calibration Kit (required)

FLUKE-700P01 Pressure Module 0-10 IN. H<sub>2</sub>O DIFF

FLUKE-700P02 Pressure Module 0-1 PSID FLUKE-700P03 Pressure Module 0-5 PSID FLUKE-700P04 Pressure Module O-15 PSID FLUKE-700P05 Pressure Module 0-30 PSIG FLUKE-700P06 Pressure Module O-100 PSIG FLUKE-700P07 Pressure Module 0-500 PSIG FLUKE-700P08 Pressure Module 0-1000 PSIG FLUKE-700P09 Pressure Module 1500 PSIG FLUKE-700P22 Pressure Module 0-1 PSID WET FLUKE-700P23 Pressure Module 0-5 PSID WET FLUKE-700P24 Pressure Module 0-15 PSID WET FLUKE-700P29 Pressure Module 3000 PSIG WET FLUKE-700P30 Pressure Module 5000 PSIG WET Pressure Module 10000 PSIG WET FLUKE-700P31

FLUKE-700PA3 Pressure Module 0-5 PSIA FLUKE-700PA4 Pressure Module 0-15 PSIA FLUKE-700PA5 Pressure Module 0-30 PSIA FLUKE-700PA6 Pressure Module 0-100 PSIA FLUKE-700PD2 Pressure Module ± 1 PSID **FLUKE-700PD3** Pressure Module ± 5 PSID FLUKE-700PD4 Pressure Module ± 15 PSID

FLUKE-700PD5 Pressure Module -15+30 PSIG FLUKE-700PD6 Pressure Module -15+100 PSIG FLUKE-700PD7 Pressure Module -15+200 PSIG

FLUKE-700PV3 Pressure Module -5 PSID FLUKE-700PV4 Pressure Module -15 PSID

FLUKE-700PMP Pressure Pump

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