Lake Shore Probe Stations

Model	Magnet field	Max probe arms	Standard temperature range	Optional high temperature	Optional low temperature	Max sample size	Vacuum	Sample stage rotation
Cryogen-Free Cryogenic Probe Stations								
CRX-EM-HF	0.6 T horizontal field electromagnet	4	8 K to 400 K	—	—	25 mm (1 in) diameter	10^{-5} torr	±360° (optional)
CRX-VF	2.5 T vertical field superconducting magnet	6	10 K to 500 K, <10 K to 400 K with load lock	—	—	51 mm (2 in) diameter	10^{-5} torr standard, 10^{-7} torr optional	—
CRX-4K	—	6	4.5 K to 350 K	20 K to 675 K	—	51 mm (2 in) diameter	10^{-5} torr	—
CRX-6.5K	—	6	<10 K to 350 K	20 K to 675 K	—	51 mm (2 in) diameter	10^{-5} torr	—
Cryogenic Probe Stations								
FWPX	—	6	4.5 K to 475 K	—	3.5 K	102 mm (4 in) diameter	10^{-5} torr	±5°
EMPX-H2	0.6 T horizontal field electromagnet	4	4.5 K to 400 K; 8 K to 400 K with 360° rotation option	—	3.2 K	25 mm (1 in) diameter	10^{-5} torr	±360° (optional)
CPX-VF	2.5 T vertical field superconducting magnet	6	4.2 K to 400 K, <10 K to 400 K with load lock	—	2 K	51 mm (2 in) diameter	10^{-5} torr standard, 10^{-7} torr optional	±5°
CPX	—	6	4.2 K to 475 K, <10 K to 400 K with load lock	—	Low temp: 1.9 K Very low temp: 1.6 K	51 mm (2 in) diameter 12.7 mm (0.5 in) with load-lock	10^{-5} torr standard, 10^{-7} torr optional	±5°
TTPX	—	6	4.2 K to 475 K	20 K to 675 K	3.2 K	51 mm (2 in) diameter	10^{-5} torr	—
PS-100	—	4	4.2 K to 475 K	—	3.2 K	32 mm (1.25 in) diameter	10^{-5} torr	—

Do you need DC and AC stimulus and measurement capabilities? Then consider adding our unique modular source measure system:

M81 SSM

An innovative instrument architecture optimized to provide synchronous DC, AC, and mixed DC+AC source and measure to 100 kHz for low-level measurements

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Lake Shore Probe Stations

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Cryogen-Free Probe Stations

Cryogenic Probe Stations

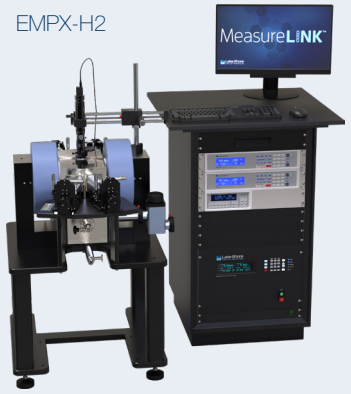
Lake Shore cryogenic probe stations provide precisely controlled environments for non-destructive measurement of the electrical properties of materials and early-stage electronic devices.

Typical applications include sampling I-V and C-V curves over a wide range of temperatures, measuring microwave and electro-optical responses, characterizing magnetotransport properties in variable magnetic fields, Hall effect measurements to understand carrier mobility, and a variety of other material studies.

Horizontal field

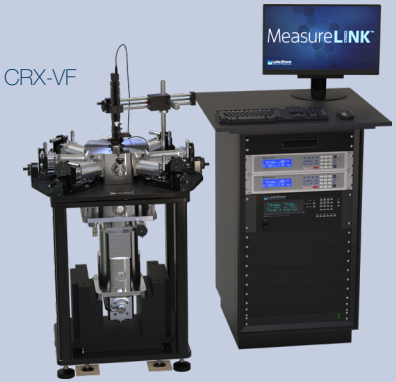
CRX-EM-HF

EMPX-H2



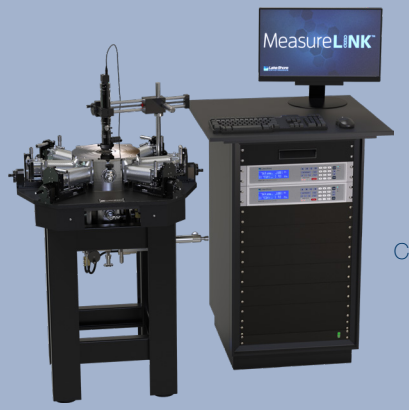
Vertical field

CRX-VF



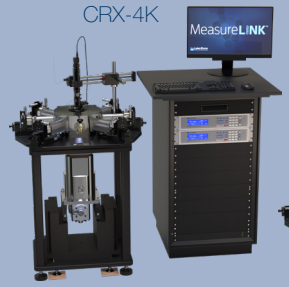
CPX-VF

CPX

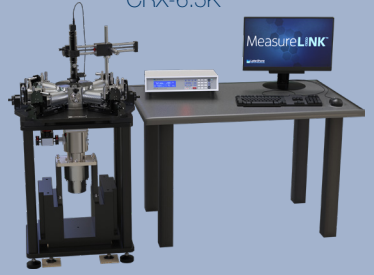


No field

CRX-4K



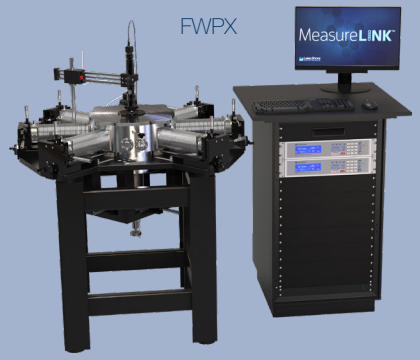
CRX-6.5K



TTPX

PS-100

FWPX



Lake Shore Probe Stations

Lake Shore CRYOTRONICS

Model	Magnet field	Max probe arms	Standard temperature range	Optional high temperature	Optional low temperature	Max sample size	Vacuum	Sample stage rotation
Cryogen-Free Cryogenic Probe Stations								
CRX-EM-HF	0.6 T horizontal field electromagnet	4	8 K to 400 K	—	—	25 mm (1 in) diameter	10^{-5} torr	±360° (optional)
CRX-VF	2.5 T vertical field superconducting magnet	6	10 K to 500 K, <10 K to 400 K with load lock	—	—	51 mm (2 in) diameter	10^{-5} torr standard, 10^{-7} torr optional	—
CRX-4K	—	6	4.5 K to 350 K	20 K to 675 K	—	51 mm (2 in) diameter	10^{-5} torr	—
CRX-6.5K	—	6	<10 K to 350 K	20 K to 675 K	—	51 mm (2 in) diameter	10^{-5} torr	—
Cryogenic Probe Stations								
FWPX	—	6	4.5 K to 475 K	—	3.5 K	102 mm (4 in) diameter	10^{-5} torr	±5°
EMPX-H2	0.6 T horizontal field electromagnet	4	4.5 K to 400 K; 8 K to 400 K with 360° rotation option	—	3.2 K	25 mm (1 in) diameter	10^{-5} torr	±360° (optional)
CPX-VF	2.5 T vertical field superconducting magnet	6	4.2 K to 400 K, <10 K to 400 K with load lock	—	2 K	51 mm (2 in) diameter	10^{-5} torr standard, 10^{-7} torr optional	±5°
CPX	—	6	4.2 K to 475 K, <10 K to 400 K with load lock	—	Low temp: 1.9 K Very low temp: 1.6 K	51 mm (2 in) diameter 12.7 mm (0.5 in) with load-lock	10^{-5} torr standard, 10^{-7} torr optional	±5°
TTPX	—	6	4.2 K to 475 K	20 K to 675 K	3.2 K	51 mm (2 in) diameter	10^{-5} torr	—
PS-100	—	4	4.2 K to 475 K	—	3.2 K	32 mm (1.25 in) diameter	10^{-5} torr	—

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Lake Shore Probe Stations

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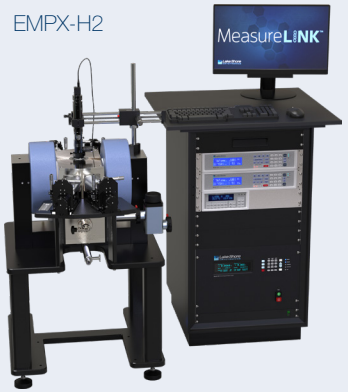
Cryogen-Free Probe Stations

Cryogenic Probe Stations

Horizontal field

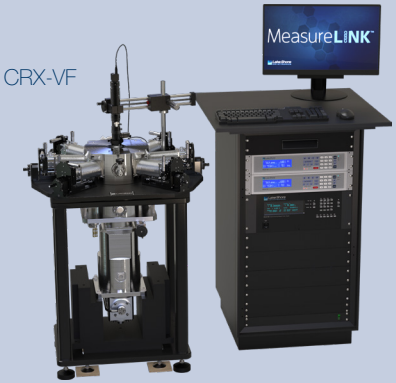
CRX-EM-HF

EMPX-H2



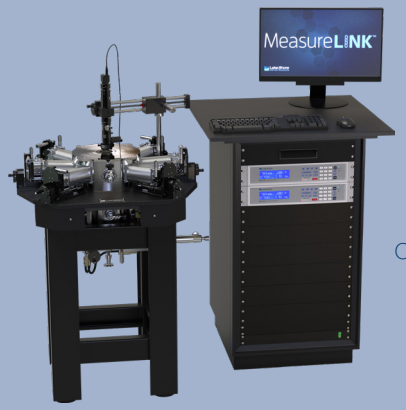
Vertical field

CRX-VF



CPX-VF

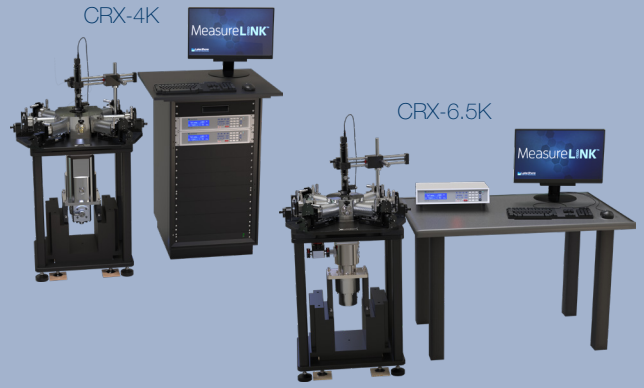
CPX



No field

CRX-4K

CRX-6.5K



TTPX

PS-100

FWPX