

Battery Probe

電池應用探針

Battery Production
電池製程

High Current
大電流



Table of Content

目錄

- 01** About Us: CCP
關於我們: 中探
- 02** Testing Probe in Battery Production
測試針在電池製程的應用
- 03** C.C.P. Solutions
中探提供的解決方案
- 04** Product Verification & Equipment
驗證手法與設備
- 05** Assembling Methods
探針夾持方式
- 06** One-Piece Probe
一體式探針
- 07 - 10** Coaxial One-Piece Probe
同軸一體針
- 11** Harness Pogo Probe
線纜彈簧針
- 12** Pogo Probe
彈簧針

About Us: CCP

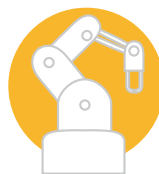
關於我們: 中探

Advantages 優勢



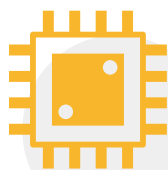
30 Years of Experience of Product Design
with First-Tier Clients
與世界一級客戶共同合作30年的經驗

Speedy and Flexible Design Process
with Self-owned Turning and Plating Factory
自有車削與電鍍廠提供了快速和靈活的開發排程

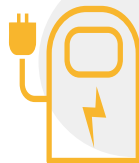


Stable Products with
Certified Quality Management System
and High-end Equipment
品質管理系統與高端的設備保證了產品穩定的水準

Product Lines 產品線



Testing Solutions
測試解決方案



High Current Connector Solutions
新能源連接器解決方案



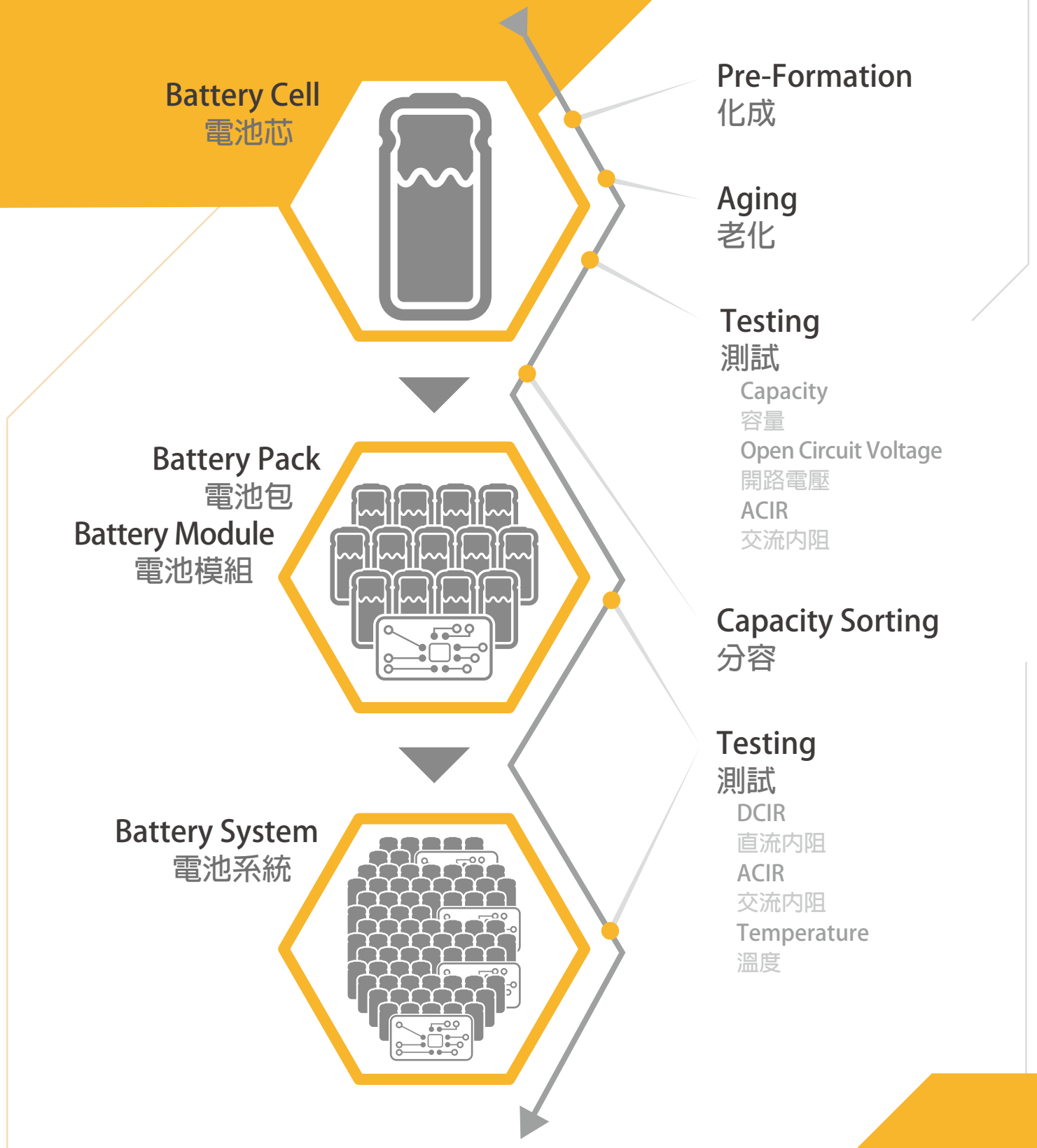
Commercial Connector Solutions
商用連接器解決方案



Industrial Connector Solutions
工業連接器解決方案

Probe in Battery Production

探針在電池製程的應用



Probe Solutions

探針解決方案



One-Piece Probe
一體針



Coaxial One-Piece Probe
同軸一體針



Harness Pogo Probe
線纜彈簧針

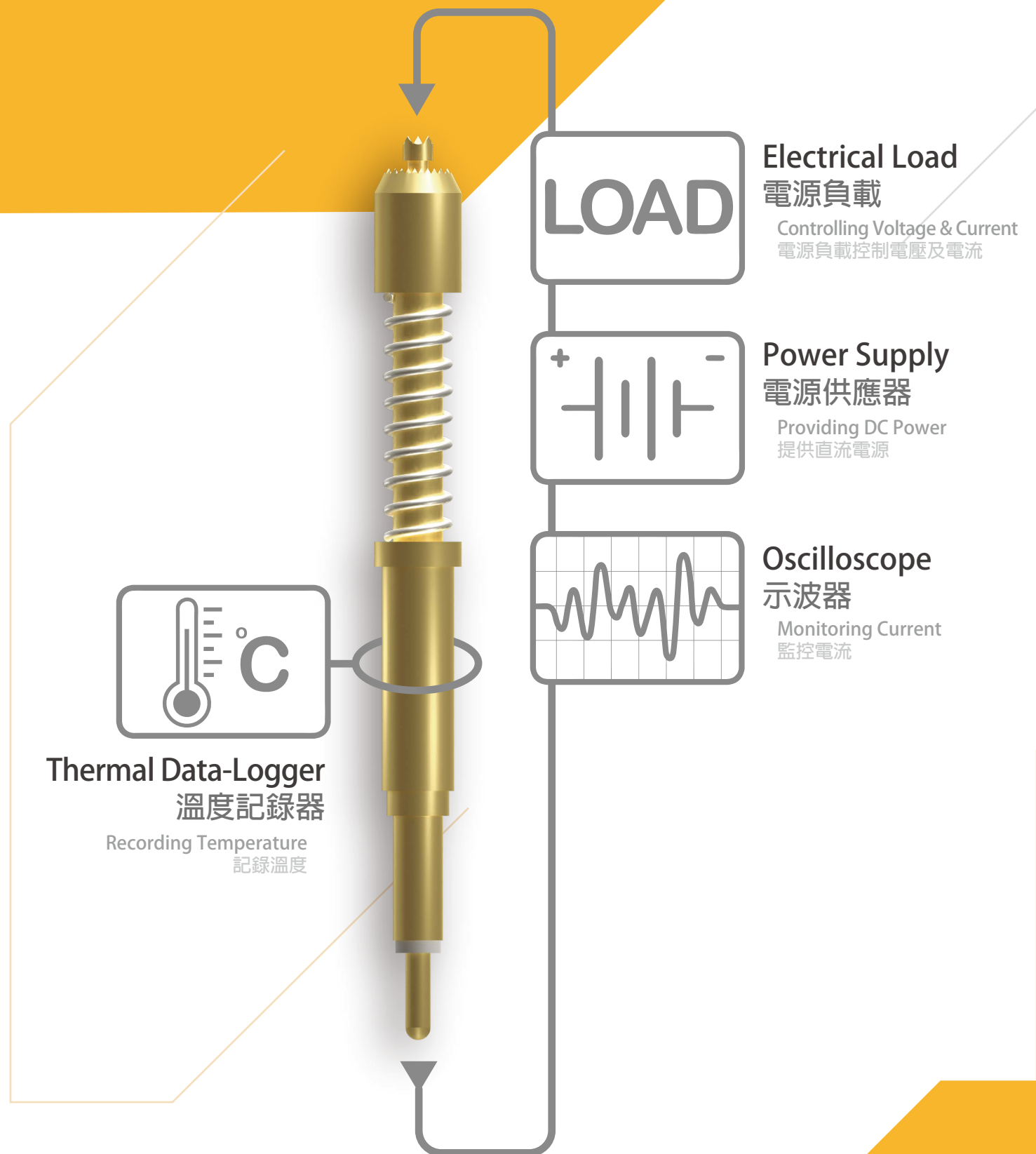


Pogo Probe
彈簧針

| | | | | |
|--------------------|-----------------------|---|---|-------------------------|
| Application 應用 | Battery Cell 電池芯 | Battery Module/ Battery Pack 電池模組/電池包 | Battery Module/ Battery Pack 電池模組/電池包 | Battery Cell 電池芯 |
| Advantage 優勢 | Low Resistance 低電阻 | 4-Wire Measurement 四線式量測 | Durable to Harsh Enviroment 高強度探針 | Easy to Replace 快速更換 |
| Max. Current 電流 | 60 Amp | 200 Amp | 400 Amp | 30 Amp |
| Resistance 阻值 | <1 mΩ | <1 mΩ | <1 mΩ | <30 mΩ |
| Temperature 溫度 | -40~200 °C | -40~200 °C | -40~150 °C | -40~150 °C |

Product Verification & Equipment

驗證手法與設備



Assembling Methods

探針夾持方式



Sleeve
套管

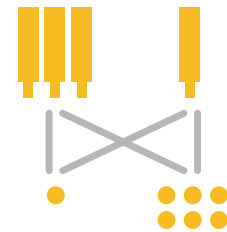


Wired Terminal
夾線端子

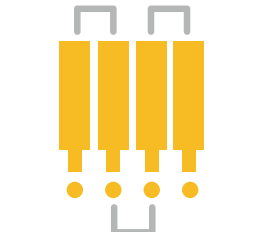


Nut & Ring Terminals
螺帽 & 墊片端子

Customized Fixture
客製化治具



Multiple to One
One to Multiple
多對一/一對多



Concatenated
Probe & Pad
串連探針與接點

Pogo Probe

彈簧針

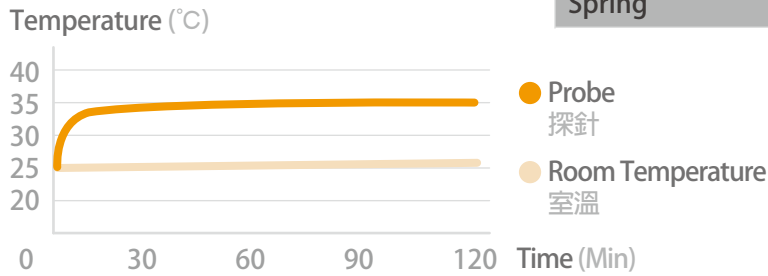
6-30
amp

S-11T1-2545G

| | |
|--------------------|-------------------------------|
| Current | 6 Amp |
| Resistance | <100 mΩ |
| Recommended Center | 3.97 mm |
| Temperature | $\Delta T < 15^\circ\text{C}$ |

| | |
|--------------------|--------|
| Recommended Stroke | 4.2 mm |
| Spring Force | 450 g |

| | |
|-----------------------|-----------|
| Plunger Base/ Coating | BeCu/ Au |
| Barrel Base/ Coating | Brass/ Au |
| Spring | SUS304 |

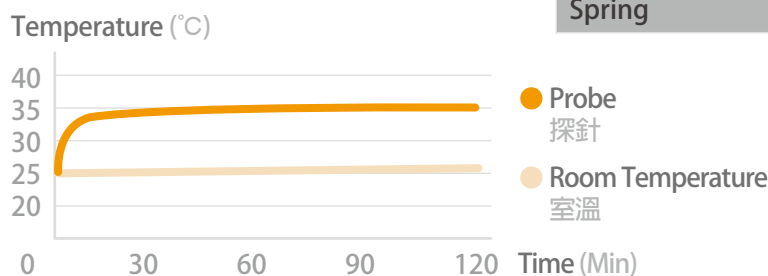


H301001M0

| | |
|--------------------|-------------------------------|
| Current | 30 Amp |
| Resistance | <30 mΩ |
| Recommended Center | 9 mm |
| Temperature | $\Delta T < 15^\circ\text{C}$ |

| | |
|--------------------|--------|
| Recommended Stroke | 2.3 mm |
| Spring Force | 250 g |

| | |
|-----------------------|-----------|
| Plunger Base/ Coating | BeCu/ Au |
| Barrel Base/ Coating | Brass/ Au |
| Spring | SUS304 |



3-6
amp

Coaxial One-Piece Probe

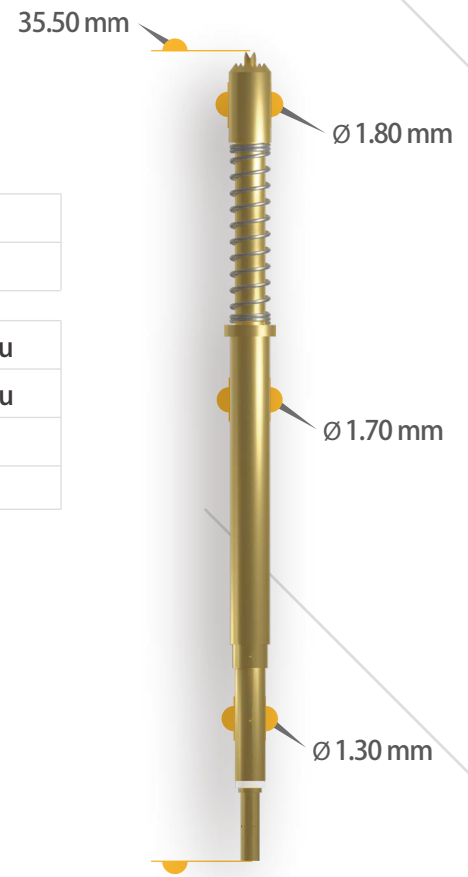
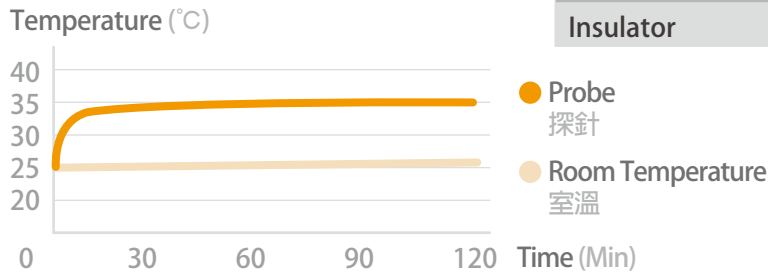
同軸一體式探針

H003001M0

| | |
|--------------------|-------------------------------|
| Current | 3 Amp |
| Resistance | <10 mΩ |
| Recommended Center | 2.5 mm |
| Temperature | $\Delta T < 15^\circ\text{C}$ |

| | |
|--------------------|--------|
| Recommended Stroke | 3.4 mm |
| Spring Force | 100 g |

| | |
|-----------------------|-----------|
| Plunger Base/ Coating | BeCu/ Au |
| Barrel Base/ Coating | Brass/ Au |
| Spring | SUS304 |
| Insulator | POM |

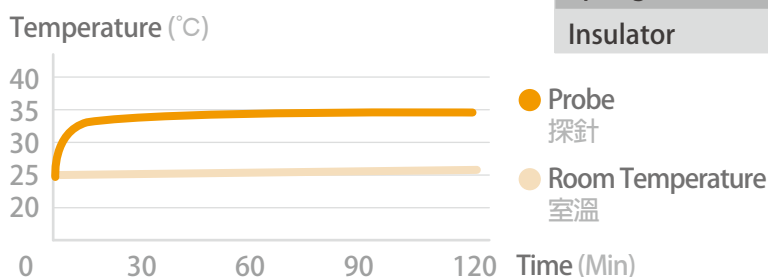


H004003M0

| | |
|--------------------|-------------------------------|
| Current | 6 Amp |
| Resistance | <10 mΩ |
| Recommended Center | 8 mm |
| Temperature | $\Delta T < 15^\circ\text{C}$ |

| | |
|--------------------|--------|
| Recommended Stroke | 4.2 mm |
| Spring Force | 250 g |

| | |
|-----------------------|-----------|
| Plunger Base/ Coating | BeCu/ Au |
| Barrel Base/ Coating | Brass/ Au |
| Spring | SWP |
| Insulator | Teflon |



Coaxial One-Piece Probe

同軸一體式探針

15
amp

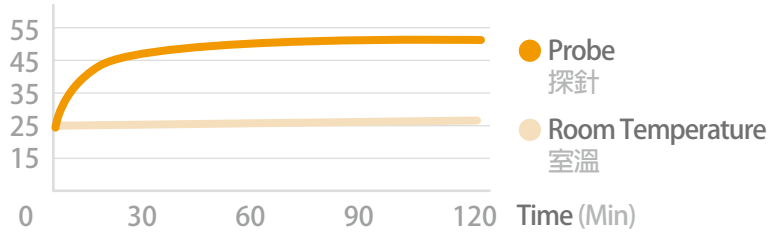
CM-M6-350-10061

| | |
|--------------------|-------------------------------|
| Current | 15 Amp |
| Resistance | <10 mΩ |
| Recommended Center | 3.7 mm |
| Temperature | $\Delta T < 30^\circ\text{C}$ |

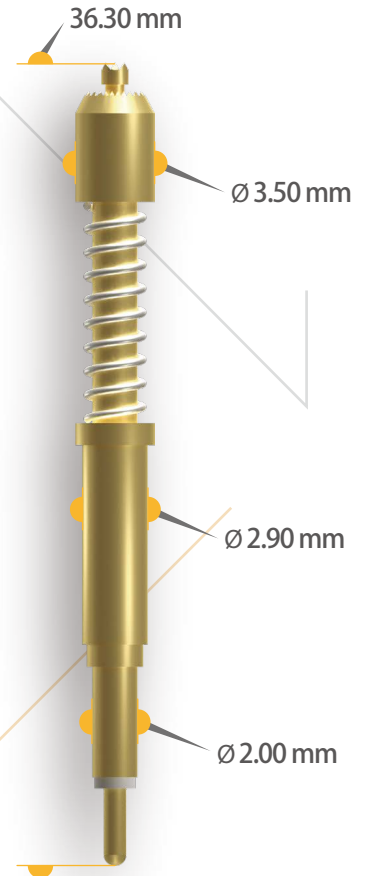
| | |
|--------------------|-------|
| Recommended Stroke | 4 mm |
| Spring Force | 550 g |

| | |
|-----------------------|-----------|
| Plunger Base/ Coating | BeCu/ Au |
| Barrel Base/ Coating | Brass/ Au |
| Spring | SWP |
| Insulator | POM |

Temperature ($^\circ\text{C}$)



- Probe
探針
- Room Temperature
室溫

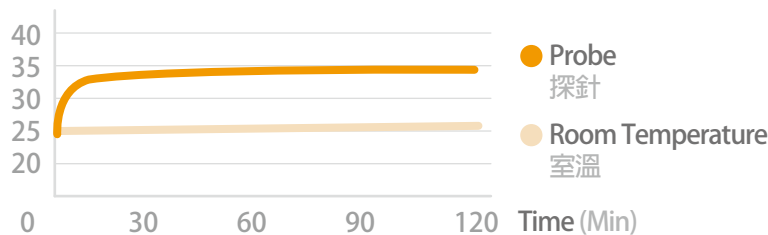


H015001M0

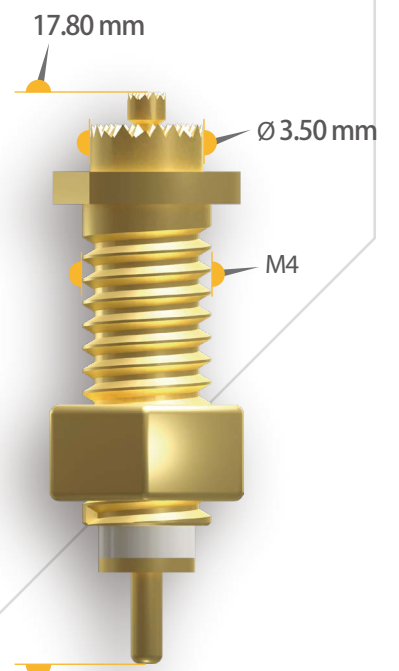
| | |
|--------------------|-------------------------------|
| Current | 15 Amp |
| Resistance | <5 mΩ |
| Recommended Center | 8 mm |
| Temperature | $\Delta T < 15^\circ\text{C}$ |

| | |
|-----------------------|-----------|
| Plunger Base/ Coating | BeCu/ Au |
| Barrel Base/ Coating | Brass/ Au |
| Spring | SWP |
| Insulator | Teflon |

Temperature ($^\circ\text{C}$)



- Probe
探針
- Room Temperature
室溫



50-60
amp

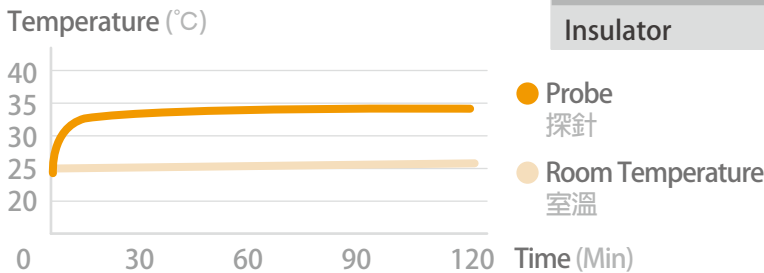
Coaxial One-Piece Probe

同軸一體式探針

H050002M0

| | |
|--------------------|-------------------------------|
| Current | 50 Amp |
| Resistance | <5 mΩ |
| Recommended Center | 14 mm |
| Temperature | $\Delta T < 15^\circ\text{C}$ |

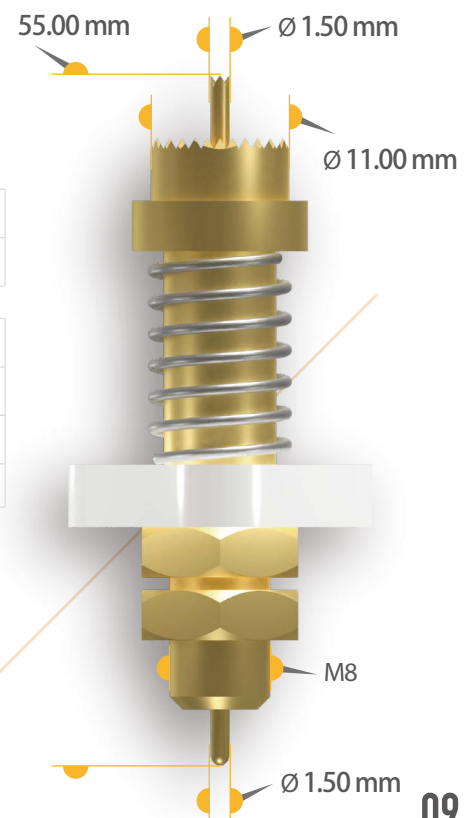
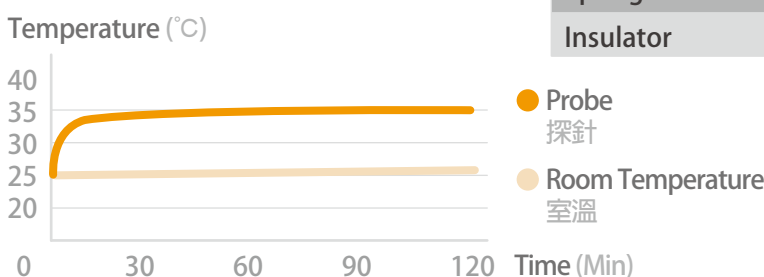
| | |
|-----------------------|-----------|
| Recommended Stroke | 4 mm |
| Spring Force | 700 g |
| Plunger Base/ Coating | BeCu/ Au |
| Barrel Base/ Coating | Brass/ Au |
| Spring | SWP |
| Insulator | Teflon |



CM-M1-900-12002

| | |
|--------------------|-------------------------------|
| Current | 60 Amp |
| Resistance | <5 mΩ |
| Recommended Center | 22 mm |
| Temperature | $\Delta T < 15^\circ\text{C}$ |

| | |
|-----------------------|-----------|
| Recommended Stroke | 5 mm |
| Spring Force | 1200 g |
| Plunger Base/ Coating | BeCu/ Au |
| Barrel Base/ Coating | Brass/ Au |
| Spring | SUS304 |
| Insulator | PTFE |



Coaxial One-Piece Probe

同軸一體式探針

80-100
amp

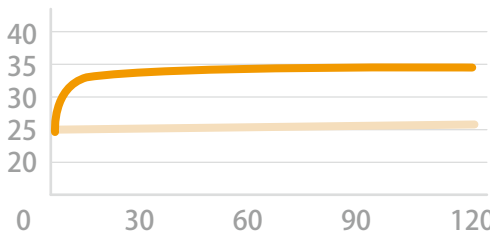
H080001M0

| | |
|--------------------|---------------------------------|
| Current | 80 Amp |
| Resistance | <5 mΩ |
| Recommended Center | 24 mm |
| Temperature | $\Delta T < 15^{\circ}\text{C}$ |

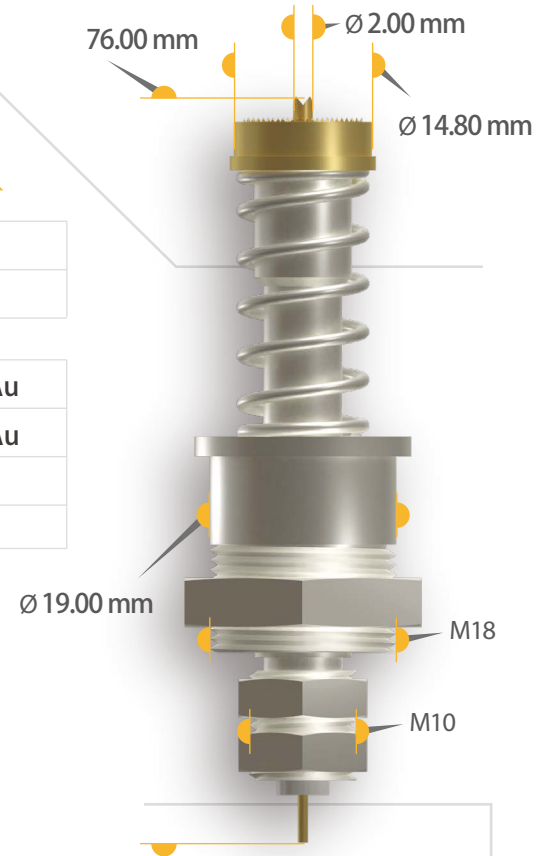
| | |
|--------------------|--------|
| Recommended Stroke | 8 mm |
| Spring Force | 3500 g |

| | |
|-----------------------|-----------|
| Plunger Base/ Coating | BeCu/ Au |
| Barrel Base/ Coating | Brass/ Au |
| Spring | SUS304 |
| Insulator | Teflon |

Temperature ($^{\circ}\text{C}$)



- Probe 探針
- Room Temperature 室溫



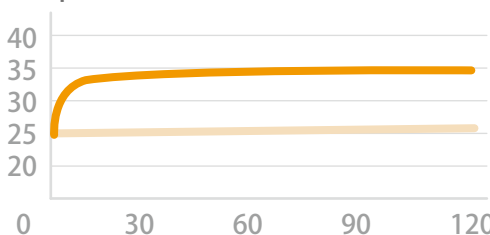
H100001M0

| | |
|--------------------|---------------------------------|
| Current | 100 Amp |
| Resistance | <5 mΩ |
| Recommended Center | 35 mm |
| Temperature | $\Delta T < 15^{\circ}\text{C}$ |

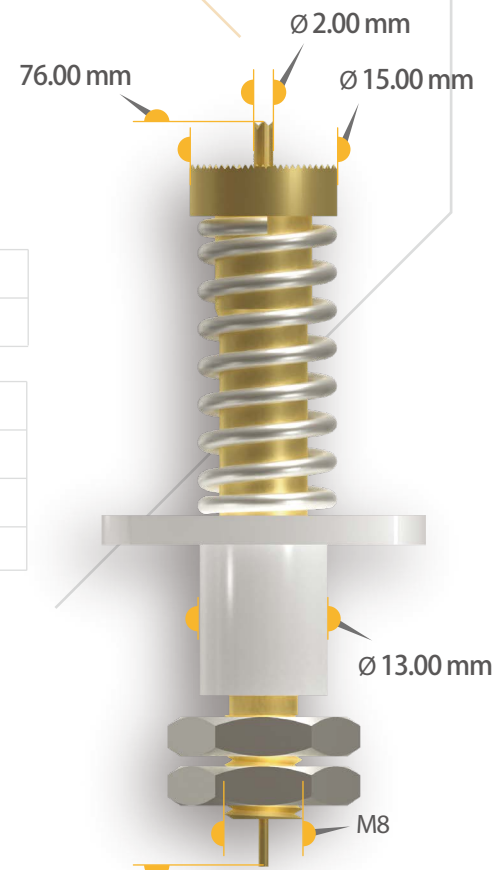
| | |
|--------------------|--------|
| Recommended Stroke | 8 mm |
| Spring Force | 1000 g |

| | |
|-----------------------|-----------|
| Plunger Base/ Coating | BeCu/ Au |
| Barrel Base/ Coating | Brass/ Au |
| Spring | SUS304 |
| Insulator | POM |

Temperature ($^{\circ}\text{C}$)



- Probe 探針
- Room Temperature 室溫



100-200
amp

Harness Pogo Probe

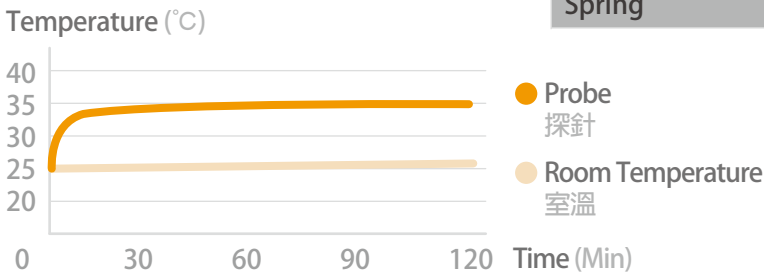
線纜彈簧針

H120002M

| | |
|--------------------|---------------------------------|
| Current | 100 Amp |
| Resistance | <30 mΩ |
| Recommended Center | 18 mm |
| Temperature | $\Delta T < 15^{\circ}\text{C}$ |

| | |
|--------------------|--------|
| Recommended Stroke | 7 mm |
| Spring Force | 1500 g |

| | |
|-----------------------|-----------|
| Plunger Base/ Coating | Brass/ Ag |
| Barrel Base/ Coating | Brass/ Ag |
| Spring | SUS304 |

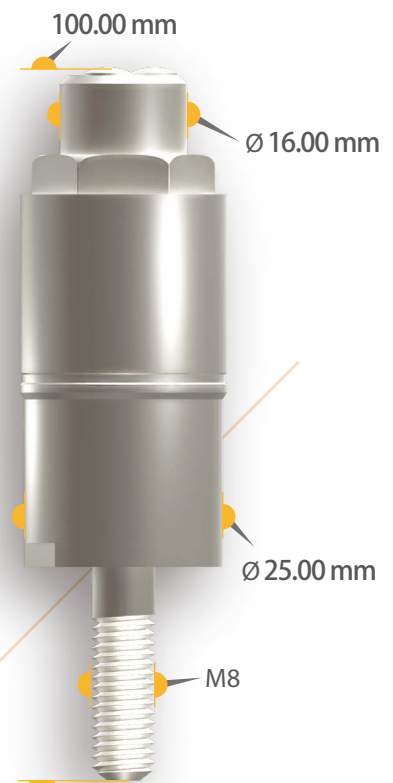
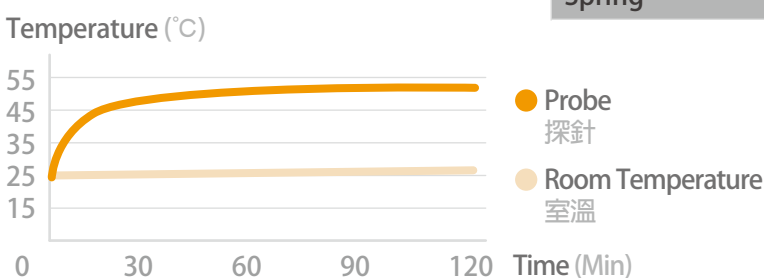


CM-M1-160-17003

| | |
|--------------------|---------------------------------|
| Current | 200 Amp |
| Resistance | <5 mΩ |
| Recommended Center | 28 mm |
| Temperature | $\Delta T < 30^{\circ}\text{C}$ |

| | |
|--------------------|--------|
| Recommended Stroke | 7 mm |
| Spring Force | 5000 g |

| | |
|-----------------------|-----------|
| Plunger Base/ Coating | Brass/ Ag |
| Barrel Base/ Coating | Brass/ Ag |
| Spring | SUS304 |



One-Piece Probe

一體式探針

8
amp

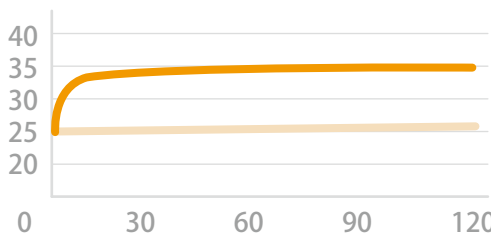
CM-M1-300-12008

| | |
|--------------------|-------------------------------|
| Current | 8 Amp |
| Resistance | <10 mΩ |
| Recommended Center | 5.5 mm |
| Temperature | $\Delta T < 15^\circ\text{C}$ |

| | |
|--------------------|-------|
| Recommended Stroke | 4 mm |
| Spring Force | 350 g |

| | |
|-----------------------|-----------|
| Plunger Base/ Coating | BeCu/ Au |
| Barrel Base/ Coating | Brass/ Au |
| Spring | SUS304 |

Temperature ($^\circ\text{C}$)



- Probe
探針
- Room Temperature
室溫



Contact Us

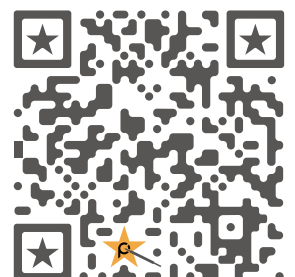
聯絡我們

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