| Classification  | ISaGRAF Chines   | e FAQ-14   | 8   |  |   |   |   |  |  |  |
|---|--|--|---|--|---|---|---|--|--|--|
| Author  | Spike  | Version  | 1.0.0   | Date   | Sep, 2011   | Page  | 1/10  |  |  |  |
| I-87017DW、I-87017ZW 與 I-87019ZW 板卡使用說明  |  |  |   |  |   |   |   |  |  |  |
| I-87017DW、I-87017ZW 與 I-87019ZW. 約於 2011 年 8 月推出.   |  |  |   |  |   |   |   |  |  |  |
| 以下的 ICP DAS   | 以下的 ICP DAS ISaGRAF controller 有支持 I-87017DW、I-87017ZW 和 I-87019ZW.  |  |   |  |   |   |   |  |  |  |
| • I-8417/8817/  | 8437/8837/8437   | 7-80/8837  | '-80 <sup>,</sup> 僅支援遠  | 袁程 IO (Ⅰ   | ISaGRAF driver  | <sup>·</sup> 4.15 版起)   |   |  |  |  |
| • I-7188EG/EGI  | D <sup>,</sup> 僅支援遠程   | IO (ISaGR  | AF driver 3.15  | 版起)  |   |   |   |  |  |  |
| • I-7188XG/XG   | D,僅支援遠程  | IO (ISaGR  | AF driver 3.14  | 版起 <b>)</b>  |   |   |   |  |  |  |
| • uPAC-7186EG   | 6/EGD,僅支援著   | 遠程 IO (IS  | SaGRAF driver :   | 1.14 版起  | 巴)  |   |   |  |  |  |
| • iPAC-8447 / 8   | 847 (ISaGRAF dı  | river 1.10   | 版起)   |  |   |   |   |  |  |  |
| • WinPAC-8147   | 7 / 8447 / 8847 ,  | WinPAC-8   | 3146 / 8446 / 8   | 846 (1   | SaGRAF driver   | 1.37 版起)  |   |  |  |  |
| • XP-8xx7-CE6/  | 8xx6-CE6 (ISa0   | GRAF drive   | er 1.17 版起)   |  |   |   |   |  |  |  |
| • VP-25W7/23  | W7 , VP-25W6/2   | 3W6 (ISa0  | GRAF driver 1.2   | 9版起)   |   |   |   |  |  |  |
| <ul> <li>VP-25W7/23W7, VP-25W6/23W6 (ISaGRAF driver 1.29 版起)</li> <li>I-87017DW 可用來當成 "8-Ch. 的 Differential" 或 "16-Ch. 的 Single-Ended" Analog Input,</li> <li>I-87017DW 詳細資料: http://www.icpdas.com/en/product/I-87017DW-G</li> <li>I-87017ZW 可用來當成 "10-Ch. 的 Differential" 或 "20-Ch. 的 Single-Ended" Analog Input,</li> <li>I-87017ZW 詳細資料: http://www.icpdas.com/en/product/I-87017ZW-G</li> <li>I-87019ZW 可用來當成 "10-Ch. 的 universal" Analog Input,</li> <li>I-87019ZW 詳細資料: http://www.icpdas.com/en/product/I-87019ZW-G_S</li> <li>若您的 PC / ISaGRAF 在 IO connection &gt; equipments 視窗內 找不到 "i87017d8"、"i8717d16"、</li> <li>"i8717z10"與"i8717z20", 請先到以下位置取得"i87017d8.xia"、"i8717d16.xia"、"i8717z10.xia"、</li> <li>"i8717z10.xia"、"i_87019z.bia"、"i87017d8.fia"、"i8717d16.fia"、"i8717z10.fia"、 "i8717z10.fia" 與 "i_87019z.fia"</li> </ul> |  |  |   |  |   |   |   |  |  |  |
| <ul> <li>https://www.</li> <li>https://www.</li> <li>請參訪網頁列</li> <li>http://www.icpda</li> <li>之後參考下頁將</li> <li>"i87017d8.fia"、</li> <li>內</li> </ul>   | .icpdas.com/en/<br>.icpdas.com/en/<br>來下載 "io_lib.:<br>as.com/en/down<br>"i87017d8.xia"<br>"i8717d16.fia"、 | download<br>faq/index<br>zip " · 並行<br>nload/sho<br>` "i8717d:<br>"i8717z1 | /file.php?num<br>.php?kind=280<br>在解壓縮後,<br>w.php?num=3<br>16.xia"、"i871<br>0.fia"、"i8717 | =962<br>#751<br>點選 "se<br>68&nati<br>7z10.xia<br>z10.fia" <sup>[</sup> | > 中文 ><br>etup.exe" 來孚<br>on=US&kind1=<br>"、"i8717z10.;<br>與"i_87019z.fia | FAQ 148<br>安裝 I/O 函<br>=&model=&k<br>xia" <sup>、</sup> "i_870<br>a"回存到 PC | 式庫。<br>w=isagraf<br>)19z.bia"、<br>: / ISaGRAF |  |  |  |

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| Author   | Spike  | Version   | 1.0.0   | Date  | Sep, 2011   | Page  | 2 / 10   |
| 將 IO complex ec<br>PC / ISaGRAF 内  | quipments - "i87<br>RAF - Project Management   | '017d8.xia  | "、"i8717d16.:   | xia" 丶 "i8  | 3717z10.xia"  | 與"i8717z10  | .xia"回存到 |
| Sign 1840         File Edit         Image: Sign 1840         File Edit         Image: Sign 1840         Image: Sign 1840 | KAP - Project Nanagement<br>Project Tools Options He<br>Archive<br>Libraries<br>Import IL program<br>demonstatres and<br>- Libraries<br>ols Options Help<br>Archive<br>Standard note format<br>WIN32 integration & Crit<br>complex equipments<br>ch Archive<br>4 | Alp<br>+ 2 Sam<br>th various lar<br>n of bottle produce<br>y management fun<br>3<br>• 2 E | ples ? File<br>guages<br>uction File<br>ctions File<br>(Construction)<br>Archive location<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Construction)<br>(Constructio | ISaGRAF - Lil<br>Edit Iools (<br>complex equipmen-<br>configurations<br>configurations<br>torn blocks<br>tion blocks<br>ti | Daties         Options       Help         Its       CH. D/I & Cnt         ISA WIN34         ISA WIN35         MSYC         PROGRA~1         WIN00W~1         ts         ive         Backup         Qose         Help         Compress | (Max. 100Hz)<br>(Max. 100Hz)<br>(Max. 100Hz)<br>(Max. 100Hz)<br>(Max. 100Hz)<br>? X z)<br>確定<br>? X z)<br>確定<br>? X z)<br>確定<br>? X d<br>和路(W)<br>* # (2) | 5        |
| 將 IO Boards - "i_  | _87019z.bia"回  | 存到 PC /   | ISaGRAF 内   | ical docu   | iment   |   |          |

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| <pre>bit dit Cont Void (phon Hot</pre>                                  | 將 C- function blo<br>回存到 PC / ISaC  | ocks - "i87017d8<br>GRAF 内  | 8.fia" 丶 "i8  | 3717d16   | .fia" ∖ "i8717z  | 210.fia"、"i871  | .7z10.fia"與   | "i_87019z.fia   |
|   | IsackAF - Froje         File Edit Project         Image: Second Se | C Putonagement<br>obs Options Help<br>Archive<br>Libraries<br>Import IL program<br>demonstatres array manageme<br>demonstrates graphic tora grap<br>demonstrates graphic tora grap<br>demonstrates graphic tora grap<br>demonstrates cMP and BLINK<br>ritet<br>ions Help<br>note format<br>C function block samp<br>I C function block samp<br>I Read CJC Temperature<br>I ReadCJC temperature<br>I ReadCJC temperature | Samples bus languages sequences and the sequences and the sequences bus languages bus languages and the sequences bus languages b | Averag_I<br>Get aver<br>Targ<br>Targ<br>Targ<br>Targ                                    | SaCRAF - Libraries<br>Edit Jools Options Hei-<br>rotion blocks<br>ards<br>ards<br>ards<br>tons<br>tons<br>tons blocks<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards<br>ards  |                 | Averag  | _F<br>prage R<br>get 1: }<br>get 2: i<br>get 3: i<br>get 4: }<br>get 5: } |

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# 1.1. I-87017DW 使用說明

I-87017DW 可以使用 jumper 設定為 8 通道 Differential 類比輸入 或 16 通道 Single-Ended 類比輸入



I-87017DW 的每一個通道可以獨立設定量測範圍,請參考下表

| Range | 物田景數仿        | I-87017DW | ī (10 進位) | 8 CH    | 16 CH        |              |
|-------|--------------|-----------|-----------|---------|--------------|--------------|
| 識別號碼  | 彻坯里数旧        | - 32768   | 0         | +32767  | Differential | Single-Ended |
| 8     | $\pm$ 10 V   | -10 V     | 0 V       | +10 V   | 支援           | 支援           |
| 9     | ± 5 V        | -5 V      | 0 V       | +5 V    | 支援           | 支援           |
| А     | $\pm$ 1 V    | -1 V      | 0 V       | +1 V    | 支援           | 支援           |
| В     | $\pm$ 500 mV | -500 mV   | 0 V       | +500 mV | 支援           | 支援           |
| С     | $\pm$ 150 mV | -150 mV   | 0 V       | +150 mV | 支援           | 支援           |
| 7     | 4 ~ 20 mA    |           | 4 mA      | 20 mA   | 支援           | 不支援          |
| D     | $\pm$ 20mA   | - 20mA    | 0 mA      | 20mA    | 支援           | 不支援          |
| 1A    | 0 ~ 20 mA    |           | 0 mA      | 20mA    | 支援           | 不支援          |

注意: Single-Ended 類比輸入不支援電流量測

#### 在 PAC 主機的 Slot 0~7 上使用 I-87017DW : (ISaGRAF iP/WP/XP/VP PAC)

請在 IO connection 視窗內對應的 slot 編號連上 "i87017d8" 或"i8717d16"。"i87017d8" 適用在 8 通道 Differential 類比輸入, "i8717d16" 適用在 16 通道 Single-Ended 類比輸入。

| TSAGRAF - TEST - I/O connection              | - 🗆 🗙 | ISAGRAF - TEST - I/O connection        | - 🗆 🗙    |
|--|-------|--|----------|
| <u>File Edit T</u> ools <u>Options H</u> elp |       | <u>File Edit Tools Options H</u> elp   |          |
| 🙆 📼 🗟 🎾 💼 👌 🦊 🕒 🖌 🖉                          |       | 🖴 📨 🗟 🎾 🌐 🗘 🦊 🖡 🖌 🖴                    |          |
| 0 m i87017d8 ▲ > m ref = 8727A               |       | 0 m i8717d16 ▲ > m ref = 8727B         | <b>_</b> |
| 💽 📼 Al1_8 🛛 🗢 🖕 🚥 CH01_rang = 8              |       | 📑 📼 Al01_08 🛛 💠 🚽 🚥 CH01_rang = 8      |          |
| - 📼 Broken л 🔶 🚥 СН02_rang = 8               |       | - 🖿 Al09_16 🛛 💠 🚥 CH02_rang = 8        |          |
| 1 ::::::::::::::::::::::::::::::::::::       |       | - 🖿 Broken л ф 🚥 СН03_rang = 8         |          |
| 2 CH04_rang = 8                              |       | 1 CH04_rang = 8                        |          |
| 3 ::::::::::::::::::::::::::::::::::::       |       | 2 CH05_rang = 8                        |          |
| 4 CH06_rang = 8                              |       | 3 :::::::::::::::::::::::::::::::::::: |          |
| 5 CH07_rang = 8                              |       | 4 CH07_rang = 8                        |          |
| 6 CH08_rang = 8                              |       | 5 CH08_rang = 8                        |          |
| 7  |       | 6 1 2                                  |          |
| 8 2 2  |       | 7                                      |          |

### I-87017DW 當成 Remote I/O 來使用:

可以插在 I-87K4/5/8/9 或 RU-87P4/8 上當成 RS-485 remote I/O 來使用. 請先在 PC 上運行 DCON Utility 來規劃好 I-87017DW 的 Address (NET-ID), Baud-rate, 各 channel 的 range mode 的設

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| Classification                                      | ISaGRAF Chine                                | ese FAQ-14  | 18   |  |  |                   |          |
|---|--|---|--|--|--|-------------------|----------|
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| 定與其它必要設   |  | L <i>(</i> , , , , , , , , , , , , , , , , , , ,  |  | 「ታ ሰብ  |  |                   |          |
| 之俊萌仕 10 coi   | nnection 内建.                                 | "DUS /           ISaGRAF - IE           File Edit Iools (           @         >>           7           8           9         >>           10           11           12           13 | OUODD", 頁文分上的<br>ST - 1/O connection<br>Dptions Help<br>① ① ♪ 序 然 靈<br>○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ | A<br>_port = 3<br>_baud = 9600<br>_watchdog = 0<br>hdog_timer = 1<br>.hsum = 0 | n_port, com_<br>-□×  | baud 兴共上          | 5 成 疋。   |
| 之後可以編寫 I  | SaGRAF Ladder                                | ·程式如下   | 「來使用它,"i   | 87017d8  | "適用在 8 並   | 通道 Differen       | tial 類比輸 |
| 入,"i8717d16"<br>。"                                  | 適用在 16 通<br>                                 | 道 Single-E  | nded 類比輸入<br><sup>:</sup> '  | . ●  | ET 110 %         0,1           0.R_         NII           NIZ         J2           NO         J3           NO         J4           NIZ         J2           NO         J3           NI         J4           NIZ         J2           NI         J4           NIZ         J3           NIZ         J4           NIZ         J4 |                   |          |
| ADR_ 指的是 R  | emote I/O 的                                  | Address (N  | NET-ID)  |  |  |                   |          |
| TYP1~TYP8 是用<br>16#7: 4mA<br>16#1A: 0mA<br>16#0: 代表 | ]來設定 Range<br>> 20mA<br>A> 20mA<br>是其他的 Rang | 識別碼,<br>e(+/- 10V,-   | 因為 i8717d16<br>+/- 5V,+/- 1V,+/  | 不支援<br>- 500mV   | 電流量測.不<br>,+/- 150mV,+/  | 需要設定 R<br>- 20mA) | ange     |
|   |  |   |  |  |  |                   |          |
|   |  | ICP DAS   | Co., Ltd. Techn  | ical docu  | iment  |                   |          |

| Classification | ISaGRAF Chines |         |       |      |           |      |        |
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# 1.2. I-87017ZW 使用說明

I-87017ZW 可以使用 jumper 設定為 10 通道 Differential 類比輸入 或 20 通道 Single-Ended 類比輸入



I-87017ZW 的每一個通道可以獨立設定量測範圍,請參考下表

| Range | 物理量數值        | I-87017ZW | 輸入點數值 | (10 進位) | 10 CH        | 20 CH        |
|-------|--------------|-----------|-------|---------|--------------|--------------|
| 識別號碼  | 切生主致旧        | - 32768   | 0     | +32767  | Differential | Single-Ended |
| 8     | $\pm$ 10 V   | -10 V     | 0 V   | +10 V   | 支援           | 支援           |
| 9     | ± 5 V        | -5 V      | 0 V   | +5 V    | 支援           | 支援           |
| А     | ±1V          | -1 V      | 0 V   | +1 V    | 支援           | 支援           |
| В     | $\pm$ 500 mV | -500 mV   | 0 V   | +500 mV | 支援           | 支援           |
| С     | $\pm$ 150 mV | -150 mV   | 0 V   | +150 mV | 支援           | 支援           |
| 7     | 4 ~ 20 mA    |           | 4 mA  | 20 mA   | 支援           | 不支援          |
| D     | $\pm$ 20mA   | - 20mA    | 0 mA  | 20mA    | 支援           | 不支援          |
| 1A    | 0 ~ 20 mA    |           | 0 mA  | 20mA    | 支援           | 不支援          |

注意: Single-Ended 類比輸入不支援電流量測

### 在 PAC 主機的 Slot 0~7 上使用 I-87017ZW : (ISaGRAF iP/WP/XP/VP PAC)

請在 IO connection 視窗內對應的 slot 編號連上 "i8717z10" 或"i8717z20"。"i8717z10" 適用在 10 通道 Differential 類比輸入,"i8717z20" 適用在 20 通道 Single-Ended 類比輸入。

| ISaGRAF - TEST - I/O connection                                | - 🗆 🗙       | 📅 ISaGRAF - TEST - I/O connection  | - 🗆 × |
|--|-------------|--|-------|
| <u>File Edit T</u> ools <u>Options H</u> elp                   |             | <u>File Edit Tools Options H</u> elp   |       |
| 🖴 📼 🗟 🎾 💼 🚹 🦊 🕒 🖌 🖴  |             | 🖴 🖻 🛱 🛍 👌 🕂 🕒 🖿 👗 🖴  |       |
| 0       mm i8717z10       ▲       >:se ref = 87017FA         1 | •           | 0       ■ i8717z20       ▲       > :m ref = 87017FB         1        > :m Al11_10        > :m Al11_20          >> Al11_20         :m Al11_20          >> Al11_20        :m Al11_20           >> Al11_20        :m Al11_20           >> Al11_20        :m Al11_20             :m Al11_20             :m Al11_20             :m Al11_20             :m Al11_20             :m Al11_20              :m Al11_20             :m Al11_20              :m Al11_20              :m Al11_20              :m Al11_20 | ×     |
| ICP DAS Co   | o., Ltd. To | echnical document  |       |

| Classification  | ISaGRAF Chi  | nese FAQ-14  | 8                    |            |                     |               |        |  |  |
|---|--|--|----------------------|------------|---------------------|---------------|--------|--|--|
| Author  | Spike  | Version  | 1.0.0                | Date       | Sep, 2011           | Page          | 7 / 10 |  |  |
| I-87017ZW 當成 Remote I/O 來使用:<br>可以插在 I-87K4/5/8/9 或 RU-87P4/8 上當成 RS-485 remote I/O 來使用. 請先在 PC 上運行<br>DCON Utility 來規劃好 I-87017ZW 的 Address (NET-ID), Baud-rate, 各 channel 的 range mode 的設<br>定與其它必要設定。<br>之後請在 IO connection 內連上 "bus7000b",設好正確的 com_port, com_baud 與其它設定。 |  |  |                      |            |                     |               |        |  |  |
| 之後可以編寫  | Pie Biti Tools Options Help         Pie Biti Tools Options Help </td |  |                      |            |                     |               |        |  |  |
| 入,"i7017z20"  | 適用在 <b>20</b> 通  | 通道 Single-Er   | ided 類比輸入            | 0          |                     |               |        |  |  |
|   |  | en u<br>1 – ADR_ NI1V1<br>0 - TYP1_ N12V2<br>0 - TYP2_ N13V3<br>0 - TYP3_ N14V4<br>0 - TYP4_ N15V5<br>0 - TYP5_ N16V6<br>0 - TYP5_ N16V6<br>0 - TYP7_ N18V9<br>0 - TYP7_ N18V9<br>0 - TYP9_ N10V10<br>0 - <u>TYP10</u> |                      | 4 0 0 0    | <ul> <li></li></ul> |               |        |  |  |
| ADR_ 指的是 R  | emote I/O 的  | Address (N   | ET-ID)               |            |                     |               |        |  |  |
| TYP1~TYP10 是)<br>16#7: 4mA<br>16#1A: 0mA<br>16#0: 代表:<br>1.3. 1.3 I-87(   | TYP1~TYP10 是用來設定 Range 識別碼,因為 i7017z20 不支援電流量測不需要設定 Range<br>16#7: 4mA> 20mA<br>16#1A: 0mA> 20mA<br>16#0: 代表是其他的 Range(+/- 10V,+/- 5V,+/- 1V,+/- 500mV,+/- 150mV,+/- 20mA)   |  |                      |            |                     |               |        |  |  |
| I-870197W 的每  | ——個诵道可   | 以獨立設定員   | 量測範圍,請領              | 參考下表       | Ę                   |               |        |  |  |
| F   | Range<br>識別號碼  | 物理量數值  | I-87019              | zw 輸入<br>8 | 點數值 (10 š           | 進位)<br>+32767 |        |  |  |
|   | 0  | ± 15 m'  | V -15 m              | V          | 0 V                 | +15 mV        |        |  |  |
|   | 1  | ± 50 m   | V -50 m              | V          | 0 V                 | +50 mV        |        |  |  |
|   | 2 3  | $\pm 100 \text{ m}$<br>$\pm 500 \text{ m}$   | v -100 m<br>V -500 m | V          | 0 V                 | +100 mV       |        |  |  |
|   |  |  |                      |            |                     |               |        |  |  |
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| Classification | ISaGRAF Ch   | inese FAQ-148 |         |              |         |      |
|----------------|--------------|---------------|---------|--------------|---------|------|
| Author         | Spike        | Version       | 1.0.0   | Date Sep, 20 | 11 Page | 8/10 |
|                | Л            | + 1 \/        |         | / 0.1/       | /+1 \/  |      |
|                | 5            | + 2 5 V       | -2.5    | / 0/         | +2.5 V  |      |
|                | 8            | + 10 V        | -10     | / 0 V        | +10 V   |      |
|                | 9            | ± 5 V         | -5 \    | / 0 V        | +5 V    |      |
|                | А            | ± 1 V         | · -1 ·  | / 0 V        | ′ +1 V  |      |
|                | В            | ± 500 mV      | -500 m  | / 0 V        | +500 mV |      |
|                | С            | ± 150 mV      | -150 m  | / 0 V        | +150 mV |      |
|                | 7            | 4 ~ 20 mA     |         | 4 mA         | . 20 mA |      |
|                | 6 ` D        | ± 20mA        | - 20m/  | A 0 mA       | . 20mA  |      |
|                | 1A           | 0 ~ 20 mA     | L       | 0 mA         | . 20mA  |      |
|                | Thermocouple | 9             |         |              |         |      |
|                | E            | J-Type        | -210 °( | 0°C          | 760 °C  |      |
|                |              |               | -905    | 4 0          | 32767   |      |
|                | F            | К-Туре        | -270 °( | 0°C          | 1372 °C |      |
|                |              |               | -644    | 3 0          | 32767   |      |
|                | 10           | Т-Туре        | -270 °( | 0°C          | 400 °C  |      |
|                |              |               | -2211   | 3 0          | 32767   |      |
|                | 11           | E-Type        | -270 °( | C 0°C        | 1000 °C |      |
|                |              |               | -884    | 7 0          | 32767   |      |
|                | 12           | R-Type        |         | 0°C          | 1768 °C |      |
|                |              |               |         | 0            | 32767   |      |
|                | 13           | S-Type        |         | 0°C          | 1768 °C |      |
|                |              |               |         | 0            | 32767   |      |
|                | 14           | В-Туре        |         | 0°C          | 1820 °C |      |
|                |              |               |         | 0            | 32767   |      |
|                | 15           | N-Type        | -270 °( | C 0°C        | 1300 °C |      |
|                |              |               | -680    | 5 0          | 32767   |      |
|                | 16           | С-Туре        |         | 0°C          | 2320 °C |      |
|                |              |               |         | 0            | 32767   |      |
|                | 17           | L-Type        | -200 °( | 0°C          | 800 °C  |      |
|                |              |               | -819    | 2 0          | 32767   |      |
|                | 18           | M-Type        | -200 °( | C 0°C        | 100 °C  |      |
|                |              |               | -3276   | 3 0          | 16384   |      |
|                | 19           | L-Type        | -200 °( | C 0 ℃        | 900 °C  |      |
|                |              | (DIN43710)    | -728    | 1 0          | 32767   |      |
| l I            |              |               |         |              |         |      |

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| Classification ISaGRAF Chinese FAQ-148  |
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| 在 PAC 主機的 Slot 0~7 上使用 I-87019ZW :<br>請在 IO connection 視窗內對應的 slot 編號連上 "i_87019z"  |
| □ ISaGRAF - IESI - I/O connection _ □ ×   |
| File Edit Iools Options Help  |
| 0       □□ i_87019z       ~       ▲       ▶ ::0: ref = 87019FA       ▲         1       □       □       □       □       □       ▲         2       □       □       □       □       □       □       ▲         3       □  |
| □-870197\\/ 営成 Remote I/O 來使田:  |
| 可以插在 I-87K4/5/8/9 或 RU-87P4/8 上當成 RS-485 remote I/O 來使用 請先在 PC 上運行  |
| DCON Litility 來現劃好 1-870197W 的 Address (NET-ID) Baud-rate 各 channel 的 range mode 的設   |
| 定與其它必要設定。   |
| 之後請在 IO connection 內連上 "bus7000b",設好正確的 com_port, com_baud 與其它設定。   |
| ■ ISaGRAF - TEST - I/O connection   |
| File Edit Icols Options Help       Image: Second secon |
| 7       ▲       ▶ 100 ref = A         8   |
| 之後可以編寫 ISaGRAF Ladder 程式如下來使用它."i_87019z" 適用在 I-87019ZW 10 通道的  |
| Universal 類比輸入  |
|   |
| 1-ADR_ NI1V1  |
| 16#1A-TYP1_ NI2V2   |
| 16#1A- TYP2_ NI3V3  |
|   |
| 16#1A = 1YP4 = NI5 = FV5 $16#1A = TYP5 = NI6 = V6$  |
| 16#100F- TYP6_ NI7V7  |
| 16#100F-TYP7_ NI8V8   |
| 16#100F- TYP8_ NI9  |
|   |
|   |
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| Classification | ISaGRAF Chines | se FAQ-14  | 8           |              |               |             |         |
|----------------|----------------|------------|-------------|--------------|---------------|-------------|---------|
| Author         | Spike          | Version    | 1.0.0       | Date         | Sep, 2011     | Page        | 10 / 10 |
| ADR_ 指的是 R     | emote I/O 的 A  | Address (N | IET-ID)     |              |               |             |         |
| TYP1~TYP10 是   | 市米設定 Range     | e          | ,請爹考 I-     | -87019ZW ⊧   | 的 Range 表。    |             |         |
| 另外詳細的應用        | ]請参考 ISaGRA    | F FAQ061   | : http://wv | vw.icpdas.co | om/faq/isagra | lf/061_c.ht | m       |
|                |                |            |             |              |               |             |         |
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