**ZB-ANA MODBUS Test Result**

Scanjet Macron

1. MODBUS Address
   1. RS485 Port 1

|  |  |  |
| --- | --- | --- |
| Rotary Switch | Address | Result |
| 0 | 10 | OK |
| 1 | 11 | OK |
| 2 | 12 | OK |
| 3 | 13 | OK |
| 4 | 14 | OK |
| 5 | 15 | OK |
| 6 | 16 | OK |
| 7 | 17 | OK |
| 8 | 18 | OK |
| 9 | 19 | OK |
| 10 | 20 | OK |
| 11 | 21 | OK |
| 12 | 22 | OK |
| 13 | 23 | OK |
| 14 | 24 | OK |
| 15 | 25 | OK |

* 1. RS485 Port 2

|  |  |  |
| --- | --- | --- |
| Rotary Switch | Address | Result |
| 0 | 10 | OK |
| 1 | 11 | OK |
| 2 | 12 | OK |
| 3 | 13 | OK |
| 4 | 14 | OK |
| 5 | 15 | OK |
| 6 | 16 | OK |
| 7 | 17 | OK |
| 8 | 18 | OK |
| 9 | 19 | OK |
| 10 | 20 | OK |
| 11 | 21 | OK |
| 12 | 22 | OK |
| 13 | 23 | OK |
| 14 | 24 | OK |
| 15 | 25 | OK |

1. Port Power

|  |  |  |  |
| --- | --- | --- | --- |
| Test | Coil Write | Coil Read | Port Voltage |
| PORT-1 Power Off | OK | OK | OK |
| PORT-1 Power On | OK | OK | OK |
| PORT-2 Power Off | OK | OK | OK |
| PORT-2 Power On | OK | OK | OK |
| PORT-3 Power Off | OK | OK | OK |
| PORT-3 Power On | OK | OK | OK |
| PORT-4 Power Off | OK | OK | OK |
| PORT-4 Power On | OK | OK | OK |
| PORT-5 Power Off | OK | OK | OK |
| PORT-5 Power On | OK | OK | OK |
| PORT-6 Power Off | OK | OK | OK |
| PORT-6 Power On | OK | OK | OK |
| PORT-7 Power Off | OK | OK | OK |
| PORT-7 Power On | OK | OK | OK |
| PORT-8 Power Off | OK | OK | OK |
| PORT-8 Power On | OK | OK | OK |
| PORT-9 Power Off | OK | OK | OK |
| PORT-9 Power On | OK | OK | OK |
| PORT-10 Power Off | OK | OK | OK |
| PORT-10 Power On | OK | OK | OK |
| PORT-11 Power Off | OK | OK | OK |
| PORT-11 Power On | OK | OK | OK |
| PORT-12 Power Off | OK | OK | OK |
| PORT-12 Power On | OK | OK | OK |
| Multi Power Off | OK | OK | OK |
| Multi Power On | OK | OK | OK |
| Single Read |  | | |

1. Port Status

|  |  |
| --- | --- |
| Test | Read |
| PORT-1 Status | OK |
| PORT-2 Status | OK |
| PORT-3 Status | OK |
| PORT-4 Status | OK |
| PORT-5 Status | OK |
| PORT-6 Status | OK |
| PORT-7 Status | OK |
| PORT-8 Status | OK |
| PORT-9 Status | OK |
| PORT-10 Status | OK |
| PORT-11 Status | OK |
| PORT-12 Status | OK |

1. 4-20mA Input

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Port | 0mA | 4mA | 8mA | 20mA |
| Port-1 | OK | OK | TENA | TENA |
| Port-2 | OK | OK | TENA | TENA |
| Port-3 | OK | OK | TENA | TENA |
| Port-4 | OK | OK | TENA | TENA |
| Port-5 | OK | OK | TENA | TENA |
| Port-6 | OK | OK | TENA | TENA |
| Port-7 | OK | OK | TENA | TENA |
| Port-8 | OK | OK | TENA | TENA |
| Port-9 | OK | OK | TENA | TENA |
| Port-10 | OK | OK | TENA | TENA |
| Port-11 | OK | OK | TENA | TENA |
| Port-12 | OK | OK | TENA | TENA |

TENA – Test Equipment Not Available

1. Gain

|  |  |  |
| --- | --- | --- |
| Test | Read | Write |
| PORT-1 Gain | OK | OK |
| PORT-2 Gain | OK | OK |
| PORT-3 Gain | OK | OK |
| PORT-4 Gain | OK | OK |
| PORT-5 Gain | OK | OK |
| PORT-6 Gain | OK | OK |
| PORT-7 Gain | OK | OK |
| PORT-8 Gain | OK | OK |
| PORT-9 Gain | OK | OK |
| PORT-10 Gain | OK | OK |
| PORT-11 Gain | OK | OK |
| PORT-12 Gain | OK | OK |

1. Offset

|  |  |  |
| --- | --- | --- |
| Test | Read | Write |
| PORT-1 Offset | OK | OK |
| PORT-2 Offset | OK | OK |
| PORT-3 Offset | OK | OK |
| PORT-4 Offset | OK | OK |
| PORT-5 Offset | OK | OK |
| PORT-6 Offset | OK | OK |
| PORT-7 Offset | OK | OK |
| PORT-8 Offset | OK | OK |
| PORT-9 Offset | OK | OK |
| PORT-10 Offset | OK | OK |
| PORT-11 Offset | OK | OK |
| PORT-12 Offset | OK | OK |

1. Filter

|  |  |  |
| --- | --- | --- |
| Test | Read | Write |
| PORT-1 Filter | OK | OK |
| PORT-2 Filter | OK | OK |
| PORT-3 Filter | OK | OK |
| PORT-4 Filter | OK | OK |
| PORT-5 Filter | OK | OK |
| PORT-6 Filter | OK | OK |
| PORT-7 Filter | OK | OK |
| PORT-8 Filter | OK | OK |
| PORT-9 Filter | OK | OK |
| PORT-10 Filter | OK | OK |
| PORT-11 Filter | OK | OK |
| PORT-12 Filter | OK | OK |

1. Response Delay

|  |  |  |
| --- | --- | --- |
| Test | Read | Write |
| RS485 PORT-1 | OK | OK |
| Rs485 PORT-2 | OK | OK |

1. EEPROM Loading After Power Cycle

|  |  |
| --- | --- |
| Test | Read |
| PORT Power | OK |
| PORT Gain | OK |
| PORT Offset | OK |
| Response Delay | OK |

1. EEPROM Content Reset

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test | Result | | | |
| Read | OK | | | |
| Write 0 (No Effect) | OK | | | |
| Write 1 (Reset) | Port Power | Port Gain | Port Offset | Response Delay |
| OK | OK | OK | OK |

1. Version

|  |  |
| --- | --- |
| Test | Result |
| Read | OK |

1. Running Mode

|  |  |
| --- | --- |
| Test | Result |
| Read | OK |
| Write | OK |

1. Endurance Test

|  |  |  |
| --- | --- | --- |
| Test | Result | |
| Port-1  64 hour test  Reading mA Input  At 30 ms poll rate | Total Number of Requests | 4804002 |
| Total number of Successful Responses | 4804002 |
| Total Number of failures | 0 |
| Success Rate | 100% |

|  |  |  |
| --- | --- | --- |
| Test | Result | |
| Port-2  64 hour test  Reading mA Input  At 30 ms poll rate | Total Number of Requests | 4803986 |
| Total number of Successful Responses | 4803986 |
| Total Number of failures | 0 |
| Success Rate | 100% |