

XCVMITF Driver Manual

Circutor CVM-ITF/CVM-R8C Controllers Protocol Driver



CPKSoft Engineering Process Monitoring and Industrial Automation Software

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1. Introduction

CPKSoft Engineering assumes no responsibility for any errors that may appear in this document. If you have any suggestions for improvements or amendments or have found errors in this publication, please notify us.

This driver is included with all unlimited licenses of TAS-HMITalk. It is not sold separately. It requires the TAS-HMITalk ActiveX to work, therefore it cannot be used as a stand-alone driver.

If you use this driver in your applications, you need to include the xcvmitf.tlk in the set of files that you distribute. This file must be located in the same folder where the hmitalk.ocx file is registered in order to be found by the activex when the applications are executed.

The source-code for the xcvmitf.tlk driver is available in plain-C language for additional USD 299 if you own a license of TAS-HMITalk 8.04 or higher.

Refer to the following link to visit the xcvmitf driver page at CPKSoft Engineering website: <http://www.cpksoft.com/tabid/55/ProductID/25/PageIndex/1/Default.aspx>.

Visit this link if you want to see a complete list of drivers that are currently available for TAS-HMITak: <http://www.cpksoft.com/Drivers/tabid/55/Default.aspx>.

Also, refer to this link if you are interested in purchasing a license of the most recent version of TAS-HMITalk: <http://www.cpksoft.com/Products/tabid/54/Default.aspx>.

We welcome your comments about this document. You can reach us by e-mail at [contact @ cpksoft.com](mailto:contact@cpksoft.com).

2. Driver details

2.1. Driver overview

XCVMITF driver allows you to connect with CIRCUTOR CVM-ITF/BD Series Supply Network Analyzer and CIRCUTOR CVM-R8C/R8D Programmable Peripherals. This driver complies with Instruction Manual M981 171/96-001 (2/2) from Circutor S.A.

2.2. Supported devices

This driver can communicate with these devices, but is not necessarily limited to this list:

CIRCUTOR CVM-ITF Energy Network Analyzer
CIRCUTOR CVM-R8C Programmable Peripheral
CIRCUTOR CVM-R8D Programmable Peripheral
CIRCUTOR CVM-BD Series Supply Network Analyzer

3. Command list

3.1. Read Voltages Phase-Phase INST (V)

Description of this command:

Reads Voltages Phase-Phase INST in Volts.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

0

Values that are returned:

Value in PointValue (0) = Voltage Phase-Phase L12

Value in PointValue (1) = Voltage Phase-Phase L23

Value in PointValue (2) = Voltage Phase-Phase L31

Value in PointValue (3) = Voltage Phase-Phase Av

3.2. Read Voltages Phase-Phase MAX (V)

Description of this command:

Reads Voltages Phase-Phase MAX in Volts.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

1

Values that are returned:

Value in PointValue (0) = Voltage Phase-Phase L12 Max.

Value in PointValue (1) = Voltage Phase-Phase L23 Max.

Value in PointValue (2) = Voltage Phase-Phase L31 Max.

3.3. Read Voltages Phase-Phase MIN (V)

Description of this command:

Reads Voltages Phase-Phase MIN in Volts.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

2

Values that are returned:

Value in PointValue (0) = Voltage Phase-Phase L12 Min.

Value in PointValue (1) = Voltage Phase-Phase L23 Min.

Value in PointValue (2) = Voltage Phase-Phase L31 Min.

3.4. Read Voltages Phase-Neutral INST (V)

Description of this command:

Reads Voltages Phase-Neutral INST in Volts.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

3

Values that are returned:

Value in PointValue (0) = Voltage L1

Value in PointValue (1) = Voltage L2

Value in PointValue (2) = Voltage L3

Value in PointValue (3) = Voltage Av

3.5. Read Voltages Phase-Neutral MAX (V)

Description of this command:

Reads Voltages Phase-Neutral MAX in Volts.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

4

Values that are returned:

Value in PointValue (0) = Voltage L1 Max.

Value in PointValue (1) = Voltage L2 Max.

Value in PointValue (2) = Voltage L3 Max.

3.6. Read Voltages Phase-Neutral MIN (V)

Description of this command:

Reads Voltages Phase-Neutral MIN in Volts.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

5

Values that are returned:

Value in PointValue (0) = Voltage L1 Min.

Value in PointValue (1) = Voltage L2 Min.

Value in PointValue (2) = Voltage L3 Min.

3.7. Read Currents INST (mA)

Description of this command:

Reads Currents INST in mA.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

6

Values that are returned:

Value in PointValue (0) = Current L1

Value in PointValue (1) = Current L2

Value in PointValue (2) = Current L3

Value in PointValue (3) = Current Av

3.8. Read Currents MAX (mA)

Description of this command:

Reads Currents MAX in mA.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

7

Values that are returned:

Value in PointValue (0) = Current L1 Max.

Value in PointValue (1) = Current L2 Max.

Value in PointValue (2) = Current L3 Max.

3.9. Read Currents MIN (mA)

Description of this command:

Reads Currents MIN in mA.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

8

Values that are returned:

Value in PointValue (0) = Current L1 Min.
Value in PointValue (1) = Current L2 Min.
Value in PointValue (2) = Current L3 Min.

3.10. Read Active Powers INST (W)

Description of this command:

Reads Active Powers INST in Watts.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

9

Values that are returned:

Value in PointValue (0) = Power L1
Value in PointValue (1) = Power L2
Value in PointValue (2) = Power L3
Value in PointValue (3) = Power III

3.11. Read Active Powers MAX (W)

Description of this command:

Reads Active Powers MAX in Watts.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

10

Values that are returned:

Value in PointValue (0) = Power L1 Max.
Value in PointValue (1) = Power L2 Max.
Value in PointValue (2) = Power L3 Max.
Value in PointValue (3) = Power III Max.

3.12. Read Active Powers MIN (W)

Description of this command:

Reads Active Powers MIN in Watts.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

11

Values that are returned:

Value in PointValue (0) = Power L1 Min.
Value in PointValue (1) = Power L2 Min.
Value in PointValue (2) = Power L3 Min.
Value in PointValue (3) = Power III Min.

3.13. Read Inductive Powers INST (var.L)

Description of this command:

Reads Inductive Powers INST in var.L.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

12

Values that are returned:

Value in PointValue (0) = Inductive Power L1
Value in PointValue (1) = Inductive Power L2
Value in PointValue (2) = Inductive Power L3
Value in PointValue (3) = Inductive Power III

3.14. Read Inductive Powers MAX (var.L)

Description of this command:

Reads Inductive Powers MAX in var.L.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

13

Values that are returned:

Value in PointValue (0) = Inductive Power L1 Max.
Value in PointValue (1) = Inductive Power L2 Max.
Value in PointValue (2) = Inductive Power L3 Max.
Value in PointValue (3) = Inductive Power III Max.

3.15. Read Inductive Powers MIN (var.L)

Description of this command:

Reads Inductive Powers MIN in var.L.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

14

Values that are returned:

Value in PointValue (0) = Inductive Power L1 Min.
Value in PointValue (1) = Inductive Power L2 Min.
Value in PointValue (2) = Inductive Power L3 Min.
Value in PointValue (3) = Inductive Power III Min.

3.16. Read Capacitive Powers INST (var.C)

Description of this command:

Reads Capacitive Powers INST in var.C.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

15

Values that are returned:

Value in PointValue (0) = Capacitive Power L1
Value in PointValue (1) = Capacitive Power L2
Value in PointValue (2) = Capacitive Power L3
Value in PointValue (3) = Capacitive Power III

3.17. Read Capacitive Powers MAX (var.C)

Description of this command:

Reads Capacitive Powers MAX in var.C.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

16

Values that are returned:

Value in PointValue (0) = Capacitive Power L1 Max.

Value in PointValue (1) = Capacitive Power L2 Max.

Value in PointValue (2) = Capacitive Power L3 Max.

Value in PointValue (3) = Capacitive Power III Max.

3.18. Read Capacitive Powers MIN (var.C)

Description of this command:

Reads Capacitive Powers MIN in var.C.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

17

Values that are returned:

Value in PointValue (0) = Capacitive Power L1 Min.

Value in PointValue (1) = Capacitive Power L2 Min.

Value in PointValue (2) = Capacitive Power L3 Min.

3.19. Read Power Factors INST

Description of this command:

Reads Power Factors INST.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-4

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

18

Values that are returned:

Value in PointValue (0) = Power Factor L1
Value in PointValue (1) = Power Factor L2
Value in PointValue (2) = Power Factor L3
Value in PointValue (3) = Power Factor Av

3.20. Read Power Factors MAX

Description of this command:

Reads Power Factors MAX.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

19

Values that are returned:

Value in PointValue (0) = Power Factor L1 Max.
Value in PointValue (1) = Power Factor L2 Max.
Value in PointValue (2) = Power Factor L3 Max.

3.21. Read Power Factors MIN

Description of this command:

Reads Power Factors MIN.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

20

Values that are returned:

Value in PointValue (0) = Power Factor L1 Min.

Value in PointValue (1) = Power Factor L2 Min.

Value in PointValue (2) = Power Factor L3 Min.

3.22. Read Frequency INST (Hz)

Description of this command:

Reads Frequency INST in Hz.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

21

Values that are returned:

Value in PointValue (0) = Frequency

3.23. Read Frequency MAX (Hz)

Description of this command:

Reads Frequency MAX in Hz.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

22

Values that are returned:

Value in PointValue (0) = Frequency Max.

3.24. Read Frequency MIN (Hz)

Description of this command:

Reads Frequency MIN in Hz.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

23

Values that are returned:

Value in PointValue (0) = Frequency Min.

3.25. Read Apparent Power INST (VA)

Description of this command:

Reads Apparent Power INST in VA.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

24

Values that are returned:

Value in PointValue (0) = Apparent Power.

3.26. Read Apparent Power MAX (VA)

Description of this command:

Reads Apparent Power MAX in VA.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

25

Values that are returned:

Value in PointValue (0) = Apparent Power Max.

3.27. Read Apparent Power MIN (VA)

Description of this command:

Reads Apparent Power MIN in VA.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

26

Values that are returned:

Value in PointValue (0) = Apparent Power Min.

3.28. Read Transforming Ratios

Description of this command:

Reads Transforming Ratios.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

27

Values that are returned:

Value in PointValue (0) = Prim V

Value in PointValue (1) = Sec V

Value in PointValue (2) = Prim A

3.29. Write Transforming Ratios

Description of this command:

Writes Transforming Ratios.

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

34

Values that are sent:

Value in PointValue (0) = Prim V

Value in PointValue (1) = Sec V

Value in PointValue (2) = Prim A

3.30. Read Type of Set Voltage

Description of this command:

Reads Type of Set Voltage.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

28

Values that are returned:

Value in PointValue (0) = Type of Set Voltage

Values that are sent:

- 0 = Phase - Phase (Compound)
- 1 = Phase - Neutral (Single)

3.31. Write Measuring Mode (Type of Set Voltage)

Description of this command:

Writes Measuring Mode (Type of Set Voltage).

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

35

Values that are sent:

- Value in PointValue (0) = New Measuring Mode
- 0 = Phase - Phase (Compound)
 - 1 = Phase - Neutral (Single)

3.32. Read Total Information

Description of this command:

Reads Total Information.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-30

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

29

Values that are returned:

Value in PointValue (0) = Voltage Phase-Phase L12 (V).
Value in PointValue (1) = Voltage Phase-Phase L23 (V).
Value in PointValue (2) = Voltage Phase-Phase L31 (V).
Value in PointValue (3) = Voltage Phase-Phase Av (V).
Value in PointValue (4) = Voltage Phase-Neutral L1 (V).
Value in PointValue (5) = Voltage Phase-Neutral L2 (V).
Value in PointValue (6) = Voltage Phase-Neutral L3 (V).
Value in PointValue (7) = Voltage Phase-Neutral Av.
Value in PointValue (8) = Current L1 (mA).
Value in PointValue (9) = Current L2 (mA).
Value in PointValue (10) = Current L3 (mA).
Value in PointValue (11) = Current Av (mA).
Value in PointValue (12) = Active Power L1 (W).
Value in PointValue (13) = Active Power L2 (W).
Value in PointValue (14) = Active Power L3 (W).
Value in PointValue (15) = Active Power III (W).
Value in PointValue (16) = Inductive Power L1 (var.L).
Value in PointValue (17) = Inductive Power L2 (var.L).
Value in PointValue (18) = Inductive Power L3 (var.L).
Value in PointValue (19) = Inductive Power III (var.L).
Value in PointValue (20) = Capacitive Power L1 (var.C).
Value in PointValue (21) = Capacitive Power L2 (var.C).
Value in PointValue (22) = Capacitive Power L3 (var.C).
Value in PointValue (23) = Capacitive Power III (var.C).
Value in PointValue (24) = Power Factor L1.
Value in PointValue (25) = Power Factor L2.
Value in PointValue (26) = Power Factor L3.
Value in PointValue (27) = Power Factor Av.
Value in PointValue (28) = Frequency.
Value in PointValue (29) = Apparent Power (VA).

3.33. Read Active Energy (W.h)

Description of this command:

Reads Active Energy in W.h.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

30

Values that are returned:

Value in PointValue (0) = Active Energy

3.34. Read Inductive Energy (varh.L)

Description of this command:

Reads Inductive Energy in varh.L.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

31

Values that are returned:

Value in PointValue (0) = Inductive Energy

3.35. Read Capacitive Energy (varh.C)

Description of this command:

Reads Capacitive Energy in varh.C.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

32

Values that are returned:

Value in PointValue (0) = Capacitive Energy

3.36. Read Initial Value of Positive Energies (W.h)

Description of this command:

Reads Initial Value of the Positive Energies.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

33

Values that are returned:

Value in PointValue (0) = Active Energy

Value in PointValue (1) = Inductive Energy

Value in PointValue (2) = Capacitive Energy

3.37. Write Initial Positive Energies

Description of this command:

Writes Initial value of the positive Energies.

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

36

Values that are sent:

- Value in PointValue (0) = Active Energy
- Value in PointValue (1) = Inductive Energy
- Value in PointValue (2) = Capacitive Energy

3.38. Read Initial Value of Negative Energies (W.h)

Description of this command:

Reads Initial Value of the Negative Energies.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

45

Values that are returned:

- Value in PointValue (0) = Active Energy
- Value in PointValue (1) = Inductive Energy
- Value in PointValue (2) = Capacitive Energy

3.39. Write Initial Negative Energies

Description of this command:

Writes Initial absolute value of the negative Energies.

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

46

Values that are sent:

- Value in PointValue (0) = Active Energy (absolute value)
- Value in PointValue (1) = Inductive Energy (absolute value)
- Value in PointValue (2) = Capacitive Energy (absolute value)

3.40. Read Date and Time

Description of this command:

Reads Date and Time.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-6

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

47

Values that are returned:

- Value in PointValue (0) = Day (1-31)
- Value in PointValue (1) = Month (1-12)
- Value in PointValue (2) = Year (1990-2089)
- Value in PointValue (3) = Hour (0-23)
- Value in PointValue (4) = Minutes (0-59)
- Value in PointValue (5) = Seconds (0-59)

3.41. Write Date and Time

Description of this command:

Writes Date and Time.

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

6

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

48

Values that are sent:

- Value in PointValue (0) = Day (1-31)
- Value in PointValue (1) = Month (1-12)
- Value in PointValue (2) = Year (1990-2089)
- Value in PointValue (3) = Hour (0-23)
- Value in PointValue (4) = Minutes (0-59)
- Value in PointValue (5) = Seconds (0-59)

3.42. Read Power Demand Period

Description of this command:

Reads Power Demand Period + Parameter.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-2

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

49

Values that are returned:

- Value in PointValue (0) = Power Demand Period
- Value in PointValue (1) = Parameter
 - 21 = kW
 - 26 = KVA
 - 20 = AIII

3.43. Write Power Demand Period

Description of this command:

Writes Power Demand Period + Parameter.

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

2

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

50

Values that are sent:

Value in PointValue (0) = Power Demand Period

Value in PointValue (1) = Parameter

- 21 = kW

- 26 = KVA

- 20 = AIII

3.44. Read Maximum Demand Value

Description of this command:

Reads Maximum Demand Value.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-8

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

51

Values that are returned:

Value in PointValue (0) = Day (1-31)

Value in PointValue (1) = Month (1-12)

Value in PointValue (2) = Year (1990-2089)

Value in PointValue (3) = Hour (0-23)

Value in PointValue (4) = Minutes (0-59)

Value in PointValue (5) = Seconds (0-59)

Value in PointValue (6) = Maximum from the last reset

Value in PointValue (7) = Last Period maximum

3.45. Delete Maximum Demand Value

Description of this command:

Deletes Maximum Demand Value (max pd = 0).

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

52

Values that are sent:

Value in PointValue (0) = Not relevant.

3.46. Read Input and Relay Status in CVM-R8C

Description of this command:

Reads Input and Relay Status in CVM-R8C.

Type of data handled by this command:

Digital Input

Number of points accepted by this command:

1-99

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

37

Meaning of the DriverP2 parameter:

Defines the first register to be read.

- 1 .. 18 = Inputs

- 100 .. 117 = External Relays

3.47. Write Input and Relay Status in CVM-R8C

Description of this command:

Writes Input and Relay Status in CVM-R8C.

Type of data handled by this command:

Digital Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

38

Meaning of the DriverP2 parameter:

Defines the register to be written (0-9999).

3.48. Read A/D Channels in CVM-R8C

Description of this command:

Reads A/D Channels in CVM-R8C.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-2

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

39

Values that are sent:

Value in PointValue (0) = DC1 Channel.

Value in PointValue (1) = DC2 Channel.

3.49. Read Scale Factors of A/D Converter in CVM-R8C

Description of this command:

Reads Scale Factors of A/D Converter in CVM-R8C.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-2

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

40

Values that are sent:

Value in PointValue (0) = Channel Factor 1.

Value in PointValue (1) = Channel Factor 2.

3.50. Write Scale Factors of A/D Converter in CVM-R8C

Description of this command:

Writes Scale Factors of A/D Converter in CVM-R8C.

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

2

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

41

Values that are sent:

Value in PointValue (0) = Channel Factor 1.

Value in PointValue (1) = Channel Factor 2.

3.51. Write Leds Activation in CVM-R8C

Description of this command:

Writes Leds Activation in CVM-R8C.

Type of data handled by this command:

Digital Output

Number of points accepted by this command:

3

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

42

Values that are sent:

Value in PointValue (0) = Test (0 = Desactivate / 1 = Activate).

Value in PointValue (1) = Led 1 (Comm).

Value in PointValue (2) = Led 2 (CPU).

3.52. Read Integer Type Registers in CVM-R8C

Description of this command:

Reads Integer Type Registers in CVM-R8C.

Type of data handled by this command:

Analog Input

Number of points accepted by this command:

1-99

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

43

Meaning of the DriverP2 parameter:

First register to be read (0-499).

3.53. Write Integer Type Registers in CVM-R8C

Description of this command:

Writes Integer Type Registers in CVM-R8C.

Type of data handled by this command:

Analog Output

Number of points accepted by this command:

1

Meaning of the DriverP0 parameter:

Unit Address (0-99).

Meaning of the DriverP1 parameter:

44

Meaning of the DriverP2 parameter:

First register to be written (0-499).

4. Appendices

4.1. Error messages

The following list shows all the possible error messages that can be returned by the protocol driver during a failed communication in the 'DriverStatus' property.

This list does not include some error messages that can be returned by the activex component while attempting to establish a connection.

- [1005] DRIVER (Internal): Invalid driver stage
- [1300] PROTOCOL (Timeout): No answer
- [1433] PROTOCOL (Format): Validation error in device response
- [2117] CONFIG (NumValues): Invalid number of values (must be 2)
- [2122] CONFIG (NumValues): Invalid number of values (must be 3)
- [2129] CONFIG (NumValues): Invalid number of values (must be 6)
- [2147] CONFIG (NumValues): Only one value can be read or written
- [2193] CONFIG (NumValues): Too many values (max=19)
- [2194] CONFIG (NumValues): Too many values (max=2)
- [2206] CONFIG (NumValues): Too many values (max=3)
- [2207] CONFIG (NumValues): Too many values (max=30)
- [2216] CONFIG (NumValues): Too many values (max=4)
- [2226] CONFIG (NumValues): Too many values (max=6)
- [2235] CONFIG (NumValues): Too many values (max=8)
- [2243] CONFIG (NumValues): Too many values (max=99)
- [3018] CONFIG (P0): Invalid device address (0-99)
- [3508] CONFIG (P1): Invalid command
- [4063] CONFIG (P2): Invalid first register (0-499)
- [4064] CONFIG (P2): Invalid first register (0-999)
- [4065] CONFIG (P2): Invalid first register (0-9999)
- [8130] CONFIG (Remote): Error Response
- [9500] CONFIG (Value): Invalid day in Value[0] (1-31)
- [9501] CONFIG (Value): Invalid hour in Value[3] (0-23)
- [9502] CONFIG (Value): Invalid minutes in Value[4] (0-59)
- [9503] CONFIG (Value): Invalid month in Value[1] (1-12)
- [9504] CONFIG (Value): Invalid parameter in Value[1] (20/21/26 only)
- [9505] CONFIG (Value): Invalid seconds in Value[5] (0-59)
- [9506] CONFIG (Value): Invalid year in Value[2] (1990-2089)

4.2. Keywords list

The following list shows a set of words directly related to this driver.

"Analyzer, CIRCUTOR, Controllers, CVM-BD, CVM-ITF, CVM-R8C, CVM-R8D, Energy, Network, Peripheral, Programmable, Series, Supply".

