Radio Frequency Communication Protocol

# Received message

## Command messages

CMD\_DISCOVER

CAN ID:

Class: 0x08

Device: 0x01

Type: 0x00 (CAN\_MESSAGETYPE\_COMMAND)

DLC: 1

Data:

|  |  |  |  |
| --- | --- | --- | --- |
| Byte offset | Format | Name | Code |
| 0 | U8 | CMD\_DISCOVER | 0x90 |

## Data message

CENTRAL\_ECU\_DATA\_**X**

CAN ID:

Class: 0x08

Device: 0x01

Type: 0x03 (CAN\_MESSAGETYPE\_MEASUREMENT)

DLC: 8

Data:

|  |  |  |  |
| --- | --- | --- | --- |
| Byte offset | Format | Name | Code |
| 0 | U4 | NUMBER\_OF\_MSGS | value |
| 4 | U4 | MSG\_COUNTER | **X** |
| 8 | - | DATA | value |

# Sent message

## Response messages

RESPONSE\_PING

CAN ID:

Class: 0x08

Device: 0x01

Type: 0x01 (CAN\_MESSAGETYPE\_RESPONSE)

DLC: 1

Data:

|  |  |  |  |
| --- | --- | --- | --- |
| Byte offset | Format | Name | Code |
| 0 | U8 | RESPONSE\_PING | 0x6E |

## Status messages

STATUS\_REMOTE\_CONTROL (Forwarded message from Remote control!)

CAN ID:

Class: 0x0A

Device: 0x01

Type: 0x04 (CAN\_MESSAGETYPE\_STATUS)

DLC: 8

Data:

|  |  |  |  |
| --- | --- | --- | --- |
| Bit offset | Format | Name | Code |
| 0 | BIT0-1 | FLT\_MODE | value |
| 2 | BIT2 | TRAINER | value |
| 3 | BIT3 | AIL\_DR | value |
| 4 | BIT4 | GEAR | value |
| 5 | BIT5 | ELE\_DR | value |
| 6 | BIT6 | RUDD\_DR | value |
| 7 | BIT7 | CH7 | value |
| 8 | BIT8 | FLT\_COND | value |
| 9 | U12 | LEFT\_HORIZONTAL | value |
| 21 | U12 | LEFT\_VERTICAL | value |
| 33 | U12 | RIGHT\_HORIZONTAL | value |
| 45 | U12 | RIGHT\_VERTICAL | value |
| 57-63 | U7 | Not Used | 0 |

MEASURE&STATUS\_PC\_CONTROL\_**X**

CAN ID:

Class: 0x08

Device: 0x01

Type: 0x04 (CAN\_MESSAGETYPE\_STATUS) or 0x03 (CAN\_MESSAGETYPE\_MEASUREMENT)

DLC: 8

Data:

|  |  |  |  |
| --- | --- | --- | --- |
| Byte offset | Format | Name | Code |
| 0 | U4 | NUMBER\_OF\_MSGS | value |
| 4 | U4 | MSG\_COUNTER | **X** |
| 1 | -- | DATA | value |

## Reference messages

REFERENCE

CAN ID:

Class: 0x08

Device: 0x01

Type: 0x02 (CAN\_MESSAGETYPE\_REFERENCE)

DLC: 8

Data:

|  |  |  |  |
| --- | --- | --- | --- |
| Byte offset | Format | Name | Code |
| 0 | Float32 | X\_coord | value |
| 4 | Float32 | Y\_coord | value |

## Config messages

CONFIG

CAN ID:

Class: 0x08

Device: 0x01

Type: 0x05 (CAN\_MESSAGETYPE\_CONFIG)

DLC: 2

Data:

|  |  |  |  |
| --- | --- | --- | --- |
| Byte offset | Format | Name | Code |
| 0 | U16 | message\_counter | value |