

# M1 Modbus Bug

When adding more than one register that uses the multiplier feature, there is an error in the processing of the value. This is logged to the console:

```
error reading modbus value
No communication with the instrument (no answer)
Error reading register, retries exhausted
local variable 'val' referenced before assignment
Sending log to log-modbus: (X) Retries Exhausted: local variable 'val' referenced b
```

## Steps to re-create the error

1. Set up a single channel with no multiplier value.
2. Set Modbus settings and Sync to Device.

```
here is the answer
00
'\xf7\x03\x02\x13\x16\xfc\xaf'
'\xf7\x03\x02\x13\x16\xfc\xaf'
here is the payload from slave

'\x02\x13\x16'
here is the payload

'\x02\x13\x16'
success reading
4886
4886
```

3. Set up another channel with Multiplier parameter of "Divide" and Multiplier Value of "10".
4. Sync to Device.

on first register:

```
here is the answer
..
```

```
'''
error reading modbus value
No communication with the instrument (no answer)
had an error on the modbus loop, retrying read
here is your period: 120
23.4706990719
here is your send value: False
getting int
writing 485: 0,P0
```

on second register:

```
here is the answer

'''
'''

error reading modbus value
No communication with the instrument (no answer)
Error reading register, retries exhausted
local variable 'val' referenced before assignment
here is your period: 120
1525193769.02
here is your send value: True
getting int
writing 485: 07 0
```