

NAME

modbus_read_bits – read many bits

SYNOPSIS

```
int modbus_read_bits(modbus_t *ctx, int addr, int nb, uint8_t *dest);
```

DESCRIPTION

The *modbus_read_bits()* function shall read the status of the *nb* bits (coils) to the address *addr* of the remote device. The result of reading is stored in *dest* array as unsigned bytes (8 bits) set to *TRUE* or *FALSE*.

You must take care to allocate enough memory to store the results in *dest* (at least *nb* * sizeof(uint8_t)).

The function uses the Modbus function code 0x01 (read coil status).

RETURN VALUE

The *modbus_read_bits()* function shall return the number of read bits if successful. Otherwise it shall return -1 and set *errno*.

ERRORS

EMBMDATA

Too many bits requested

SEE ALSO

modbus_write_bit(3) **modbus_write_bits(3)**

AUTHORS

The libmodbus documentation was written by Stéphane Raimbault
<stephane.raimbault@gmail.com^[1]>

NOTES

1. stephane DOT raimbault AT gmail DOT com
mailto:stephane DOT raimbault AT gmail DOT com

