modbus\_new\_tcp(3)

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NAME

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modbus\_new\_tcp - create a libmodbus context for TCP/IPv4

SYNOPSIS

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\*modbus\_t \*modbus\_new\_tcp(const char \*'ip', int 'port');\*

DESCRIPTION

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The \*modbus\_new\_tcp()\* function shall allocate and initialize a modbus\_t

structure to communicate with a Modbus TCP IPv4 server.

The \_ip\_ argument specifies the IP address of the server to which the client

wants to establish a connection. A NULL value can be used to listen any addresses in

server mode.

The \_port\_ argument is the TCP port to use. Set the port to

`MODBUS\_TCP\_DEFAULT\_PORT` to use the default one (502). It’s convenient to use a

port number greater than or equal to 1024 because it’s not necessary to have

administrator privileges.

RETURN VALUE

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The function shall return a pointer to a \*modbus\_t\* structure if

successful. Otherwise it shall return NULL and set errno to one of the values

defined below.

ERRORS

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\*EINVAL\*::

An invalid IP address was given.

EXAMPLE

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[source,c]

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modbus\_t \*ctx;

ctx = modbus\_new\_tcp("127.0.0.1", 1502);

if (ctx == NULL) {

fprintf(stderr, "Unable to allocate libmodbus context\n");

return -1;

}

if (modbus\_connect(ctx) == -1) {

fprintf(stderr, "Connection failed: %s\n", modbus\_strerror(errno));

modbus\_free(ctx);

return -1;

}

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SEE ALSO

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linkmb:modbus\_tcp\_listen[3]

linkmb:modbus\_free[3]

AUTHORS

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