modbus\_report\_slave\_id(3)

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NAME

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modbus\_report\_slave\_id - returns a description of the controller

SYNOPSIS

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\*int modbus\_report\_slave\_id(modbus\_t \*'ctx', int 'max\_dest', uint8\_t \*'dest');\*

DESCRIPTION

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The \*modbus\_report\_slave\_id()\* function shall send a request to the controller

to obtain a description of the controller.

The response stored in \_dest\_ contains:

\* the slave ID, this unique ID is in reality not unique at all so it's not

possible to depend on it to know how the information are packed in the

response.

\* the run indicator status (0x00 = OFF, 0xFF = ON)

\* additional data specific to each controller. For example, libmodbus returns

the version of the library as a string.

The function writes at most \_max\_dest\_ bytes from the response to \_dest\_ so

you must ensure that \_dest\_ is large enough.

RETURN VALUE

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The function shall return the number of read data if successful.

If the output was truncated due to the \_max\_dest\_ limit then the return value is

the number of bytes which would have been written to \_dest\_ if enough space had

been available. Thus, a return value greater than \_max\_dest\_ means that the

response data was truncated.

Otherwise it shall return -1 and set errno.

EXAMPLE

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[source,c]

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uint8\_t tab\_bytes[MODBUS\_MAX\_PDU\_LENGTH];

...

rc = modbus\_report\_slave\_id(ctx, MODBUS\_MAX\_PDU\_LENGTH, tab\_bytes);

if (rc > 1) {

printf("Run Status Indicator: %s\n", tab\_bytes[1] ? "ON" : "OFF");

}

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AUTHORS

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