

Bruk av serieporter på TPC-100W

**TPC-100W serien har ikke i skrivende stund FlowControl på RS-485, så man må benytte en ADAM-4520 på COM1 (ttymxc0)**

**COM1 (ttymxc0)**

**COM2 (ttymxc2)**

**COM1 (ttymxc0) (RS-232 mode)  
Standard Loopback tilkoblet DB9**

*# use stty to set baud rate*

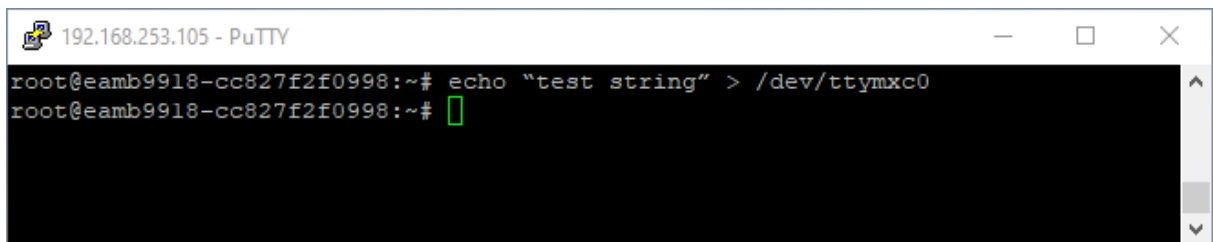
```
$ stty -F /dev/ttymxc0 -echo -onlcr 9600
```

*# write data*

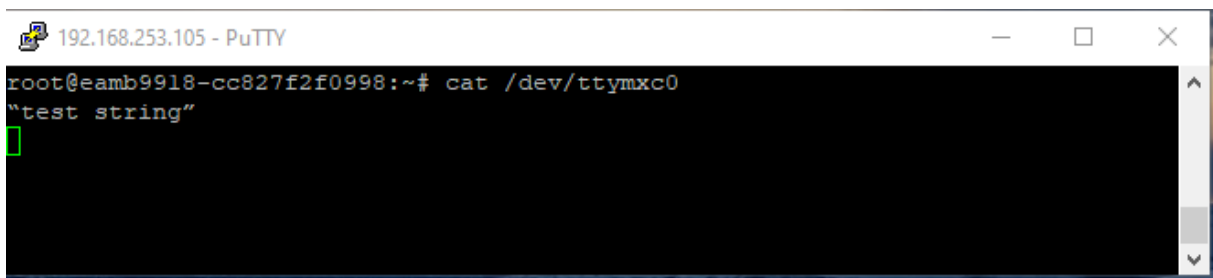
```
$ echo "test string" > /dev/ttymxc0
```

*# read data*

```
$ cat /dev/ttymxc0
```



```
192.168.253.105 - PuTTY
root@eamb9918-cc827f2f0998:~# echo "test string" > /dev/ttymxc0
root@eamb9918-cc827f2f0998:~#
```



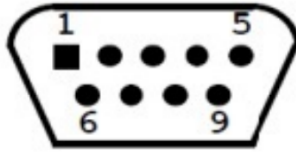
```
192.168.253.105 - PuTTY
root@eamb9918-cc827f2f0998:~# cat /dev/ttymxc0
"test string"

```

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### COM1 (ttymxc0) (RS-485 mode)

- 9-Pin Com Port Connector (COM1)



Pin	RS232	RS422	RS485
1	-		D-
2	RX	RX-	D+
3	TX	TX+	-
4	-	-	-
5	GND	GND	GND
6	-	RX+	-
7	RTS	TX-	-
8	CTS	-	-
9	-	-	-

Husk å sette COM1 under Configurasjons utility til RS-485 og baudrate

For å teste mellom COM1 og COM2 (ttymxc0 → ttymxc2)

COM1 → Pin 1 → Pin 1 → COM2

COM1 → Pin 2 → Pin 2 → COM2

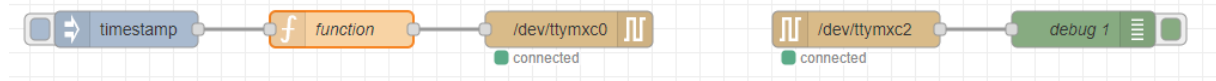
```
192.168.253.105 - PuTTY
root@eamb9918-cc827f2f0998:~# echo "test string" > /dev/ttymxc0
root@eamb9918-cc827f2f0998:~# █
```

```
192.168.253.105 - PuTTY
root@eamb9918-cc827f2f0998:~# cat /dev/ttymxc2
"test string"
█
```

Bruk av serieporter på TPC-100W

## Under Node-Red

Dette fungere på samme måte til ekstern PC eller enhet, bare husk at det er ikke flow control så data må sendes uten dette.



## Test Flow

```
[{"id":"ad6e69acb3d8fe39","type":"serial in","z":"5dbeb47b34715230","name":"","serial":"f18a836d52c60d64","x":770,"y":180,"wires":[["63f32523c74af791"]]}, {"id":"e2e8549c55d5d6e0","type":"serial out","z":"5dbeb47b34715230","name":"","serial":"f8860afa0408cb0e","x":530,"y":180,"wires":[]}, {"id":"08ca54ee2b55d87","type":"inject","z":"5dbeb47b34715230","name":"","props":[{"p":"payload"}, {"p":"topic","vt":"str"}],"repeat":"","crontab":"","once":false,"onceDelay":0.1,"topic":"","payload":"","payloadType":"date","x":160,"y":180,"wires":[["bf5dc1c76e21639d"]]}, {"id":"63f32523c74af791","type":"debug","z":"5dbeb47b34715230","name":"debug 1","active":true,"tosidebar":true,"console":false,"tostatus":false,"complete":false,"statusVal":"","statusType":"auto","x":960,"y":180,"wires":[]}, {"id":"bf5dc1c76e21639d","type":"function","z":"5dbeb47b34715230","name":"function","func":"msg.payload = (\n#01\n + \n\nr\n); \nreturn msg;","outputs":1,"timeout":0,"noerr":0,"initialize":"","finalize":"","libs":[],"x":340,"y":180,"wires":[["e2e8549c55d5d6e0"]]}, {"id":"f18a836d52c60d64","type":"serial-port","serialport":"/dev/ttymx2","serialbaud":"9600","databits":"8","parity":"none","stopbits":"1","waitfor":"","dtr":"none","rts":"none","cts":"none","dsr":"none","newline":"\n","bin":"false","out":"char","addchar":"\n","responseTimeout":"10000"}, {"id":"f8860afa0408cb0e","type":"serial-port","serialport":"/dev/ttymx0","serialbaud":"9600","databits":"8","parity":"none","stopbits":"1","waitfor":"","dtr":"none","rts":"none","cts":"none","dsr":"none","newline":"\n","bin":"false","out":"char","addchar":"","responseTimeout":"10000"}]
```