

1-Wire MicroLAN Sensor Network

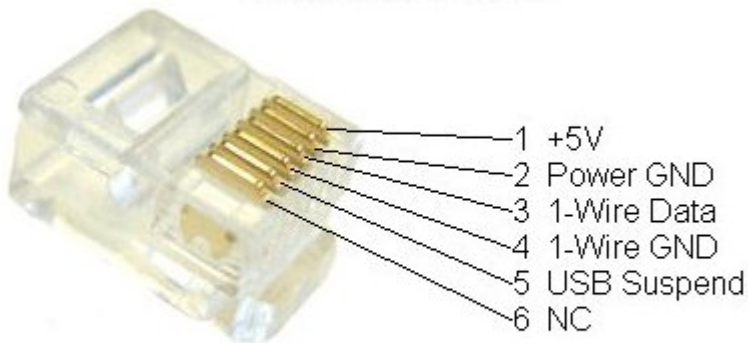
Prevodniky

DS9490R

lsusb: ID 04fa:2490 Dallas Semiconductor DS1490F 2-in-1 Fob, 1-Wire adapter



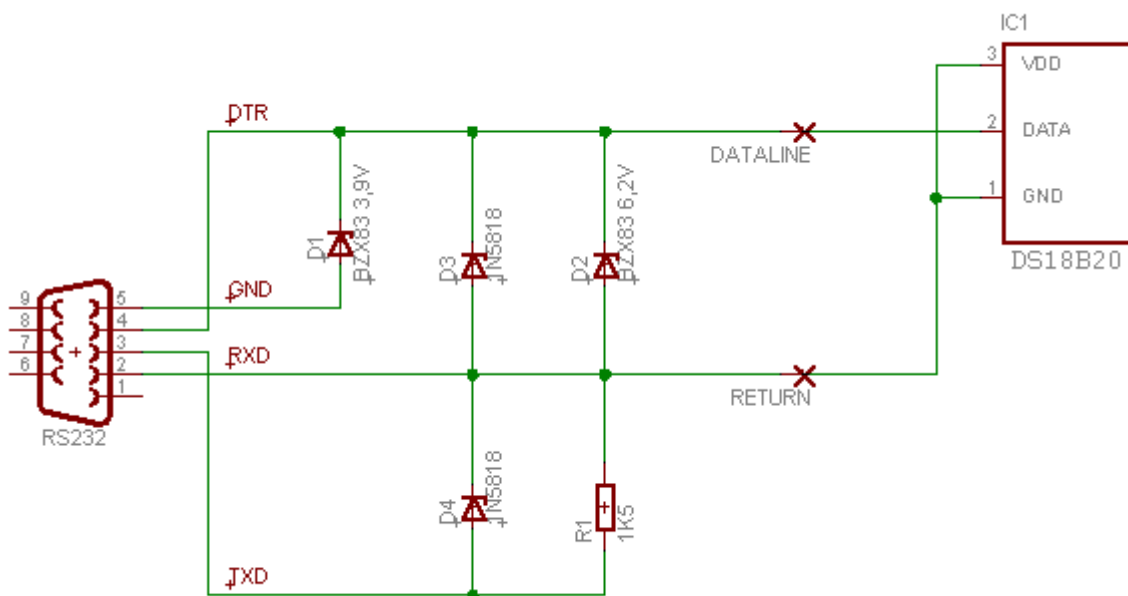
DS9490R Pin Diagram



www.sheepwalkelectronics.co.uk

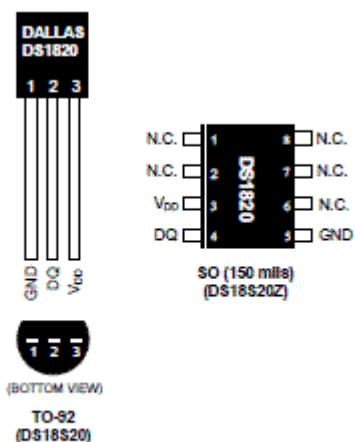
RS232

<http://www.root.cz/clanky/internetovy-termostat-stavba-site-teplotnich-cidel-na-1-wire-sbernici/>



Sensory

DS18B20

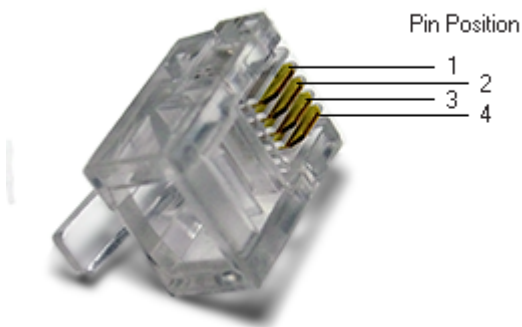


How to tell fake DS18B20 from original

Test	Original	chinese fake	note
Diode test + lead on DQ - lead on DCC	NC	approx 1.4V drop	MOST IMPORTANT TEST! This is why it shorts bus in parasitic mode.
Diode test - lead on DQ + lead on GND	0.65V drop	0.74V drop	
parasitic power mode	works	does not work and shorts whole bus	

Test	Original	chinese fake	note
default errata/trim value in OWFS	random number from 0 to 65535??	always 65535	I am not sure about this, but it looks like original sensors are factory trimmed, but fake are only faking the trim value.
default templo/temphigh value in OWFS	70/75??	-1/-1	These two are probably only way to get list of suspicious devices in your network.
accuracy	factory trimmed	probably worse	I've put original right next to fake and they were 0.5 degrees C off. But i haven't done any systematical testing.
visage	slightly darker, smaller, clear letters, small "P" letter on back	label is slightly off sometimes	
price	???	starts at \$0.7	

Sít



Konektory				
RJ45	RJ11		DS18B20 pin	
green-white	1	-		Not Used
blue	2	Data	2	Transmit Data
blue-white	3	GND	1	Ground
green	4	+5V	3	Power

Rozbočovače



Software

OWFS

[/etc/rc.local](#)

```
owfs=/mnt/lwire
mkdir -p "$owfs"
owfs --allow_other -u -a /etc/owfs-alias.conf -m "$owfs"
```

[/etc/owfs-alias.conf](#)

```
2894A40700008055=outdoor_backyard
28067A010000807F=ac_out_cold
285DCF0300008033=ac_out_hot
28E378010000803E=ac_daitsu_cold_in
28504B01000080AA=ac_daitsu_cold_out
28208C0300008046=ac_daitsu_cold_coil
28D47E03000080CD=ac_daitsu_hot_out
286C79010000803D=ceiling_hall
28185601000080EE=ceiling_row_1
287CA20700008041=ceiling_row_2
28ECA107000080BE=rack_2_top
28B9850100008095=rack_2_floor
```

Munin



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