IDOM-USB User Manual

1 About IDOM-USB

IDOM-USB is a communications lead which converts USB signals to RS-485 signals. The IDOM-USB meets SELV.

2 Technical data

Electrical Characteristics	
USB communication speed	Full speed 12Mbps
Compatibility	USB1.1, 2.0
Power	≤400mW
Signal	Standard USB signal, standard RS-485 signal
Environment And Mechanical Characteristics	
Operating Environment	Indoor, no direct sunlight, no-flammable, corrosive gasses
Operating Temperature	5℃～40℃
Operating Humidity	5%～85%RH，no-condensing
Storage Temperature	−25℃～70℃
Air Pressure	70kPa～106kPa
Size (LWH)	88mm×48mm×20mm
Wire Length	USB segment length: 2000mm, RJ45 segment length: 300mm
Weight	130g
IP Code (convertor)	IP54

3 Use

3.1. Connector diagram

Figure 3-1　Lead diagram

3.2 Connector

1）USB Connector (PC end)
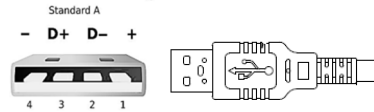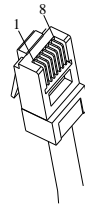

Figure 3-2　USB connector

2）RJ45 Connector (drive end)

Figure 3-3　RJ45 connector

Pin number	Function
1	Not connected
2	A (RS485 +)
3	0V
4	+24V
5	Not connected
6	Enable
7	B (RS485 -)
8	B (RS485 -)

3.2 Operation steps

Please operate according the following steps for the first time:

1) Download driver software "IDOM-USB drive" from the website: www.imoticon.com and install correctly. Please refer to the instructions of installation steps within installation package. Once the drives have been installed correctly:

2) Remove the drives terminal cover

3) Connect one end of　IDOM-USB to the computer USB port and the other to drive RS-485 port, as shown in figure 3-4;

4) Replace the drives terminal cover

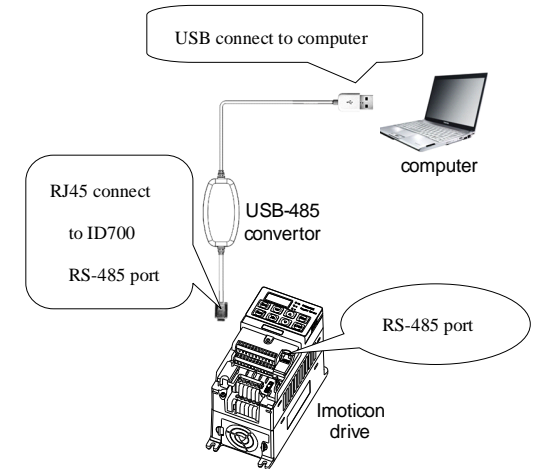5) Use IDSoft to perform communications test between PC and drive.

Figure 3-4　Connection diagram

4 Troubleshooting

When IDOM-USB doesn't communicate between the computer and drive, please check the following:

1) Check whether the cable connected correctly.

2) Check the correct communication settings:

   P10.02 – Drive address

   P10.03 – Baud rate

   P10.04 – Network data format

3) Check PC device manager for correct comm port and settings.

4) Check communication related function code settings.