

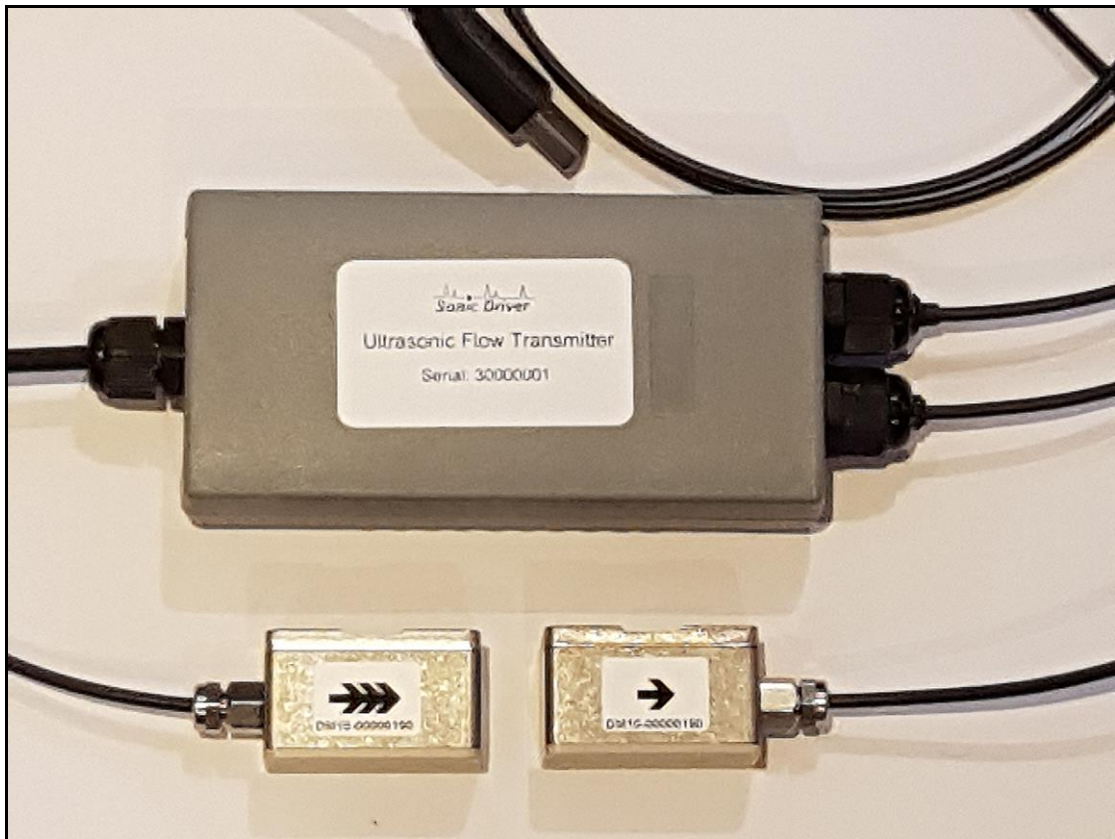


Made in Britain

Ultrasonic Flow Transmitter(UFT), Modbus RTU Slave Meter

Cable Wiring Connections

Version 1.1



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1.0 Introduction

Modbus RTU Slave functionality is implemented on the Sonic Driver™ clamp-on Ultrasonic Flow Transmitter(UFT).

Meter settings are fully configurable on the UFT using a Windows based program running on a PC or laptop. In addition a full range of flow measurements and diagnostics can be read from the meter.

Once installed and commissioned the computer can be disconnected and the meter wired back to a control room PCL, 3rd party datalogger or similar.

2.0 Cable Wiring Connections

The UFT comes with 3m of multicore cable connected, see figure(1).



Figure(1) Cable

2.1 Cable Type

Cable type is Pro Power AC T3 6C TCCA SCR WHT.

This is screened, 6 core, 24 AWG, 0.22mm².

Reels of cable can be purchased from for example Farnell at <https://uk.farnell.com/>

2.2 Colours

The 6 cores are coloured: Green, White, Blue, Red, Yellow, Black.

The meaning of each colour is given in table(1).

Colour	Meaning	Function
Red	5Vdc*	Power Supply
White	12Vdc*	Power Supply
Green	Ground	Power Supply
Blue	A	Modbus RTU
Yellow	B	Modbus RTU
Black	Ground	Modbus RTU

Table(1) Colour Meanings

***Under no circumstances connect 12Vdc to Red.**

Green and Black are connected internally in the UFT.

Physical connection to the 2-wire Modbus is via the blue and yellow wires 'A' and 'B' respectively.

Note that some equipment manufacturers label their terminals in other ways, e.g. '+' and '-' so the exact order that these 2 wires are connected may be reversed.

Sonic Driver