



Figure 1 IR02-TR dimensions. Standard cable length is 5 m. Cable can be installed / replaced by the user.

## IR02-TR PYRGEOMETER WITH HEATING, WITH INTEGRATED TRANSMITTER

IR02-TR is a sensor that can be applied for Far Infra Red (FIR) radiation observations. The main application is in meteorological outdoor experiments. The scientific name of this instrument is pyrgometer. IR02-TR is heated, which improves measurement accuracy because it prevents dew deposition. Model IR02-TR has a special housing, which makes it possible to include a transmitter, or amplifier. For additional information on the application, use and specifications of regular IR02 pyrgometer, IR02 brochure and manual can be consulted.

IR02-TR is a IR02 pyrgometer with adapted housing, to accept a transmitter or amplifier that can be programmed at user's convenience. The signal from the thermopile is converted from milliVolt signal to the output of the transmitter. The signal from the internal Pt100 temperature sensor is not affected by the transmitter, nor is the control of the heater. Programming can be done either by Hukseflux, or the user, provided the right software is used. User can choose to have his own transmitter placed in the housing, provided it is of DIN form B.

### IR02-TR SPECIFICATIONS

For IR02 specifications, please consult IR02 brochure or manual

Input	7,2 to 35 VDC for transmitter 12 VDC for heater
Output	Pt100 signal Signal from transmitter (programmable), either amplified voltage, 4-20mA, 4-20mA with HART protocol,...
Output specifications	please contact Hukseflux
Accuracy of output	dependant on used transmitter
Temperature dependence	dependant on used transmitter
Dimensions	DIN form B

### OPTIONS

Additional cable length x metres (add to 5m).  
Please contact Hukseflux for additional information.