

Examples for a FRONIUS IG DatCom System

FRONIUS IG Datacommunication exists of different components, which you choose and combine **according to your specific needs**. The DatCom of FRONIUS IG gives you a great deal of scope as far as the installation place of the components is concerned.

Installation itself is simple with plug & play as the basis of the concept. On top of that you only need one type of cable for all components.

On the following pages you will find **the structure of some exemplary DatCom Systems**.

A **complete FRONIUS IG DatCom System** can include:

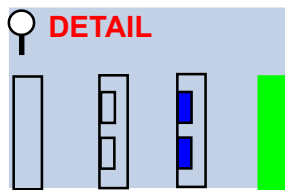
- 100 FRONIUS IG (also different types)
- 1 COM Card per inverter (obligatory)
- 1 Datalogger Box or Card
- 10 Sensor Boxes or Cards

Legend



FRONIUS IG inverter

The magnifying glass you see, marks the DatCom area in which the DatCom components have to be plugged in. An exact diagram of the 4 slots available please find in the small box named „DETAIL“.



DatCom-area

The 4 rectangles symbolise the Cards (for plug-in) and slots.

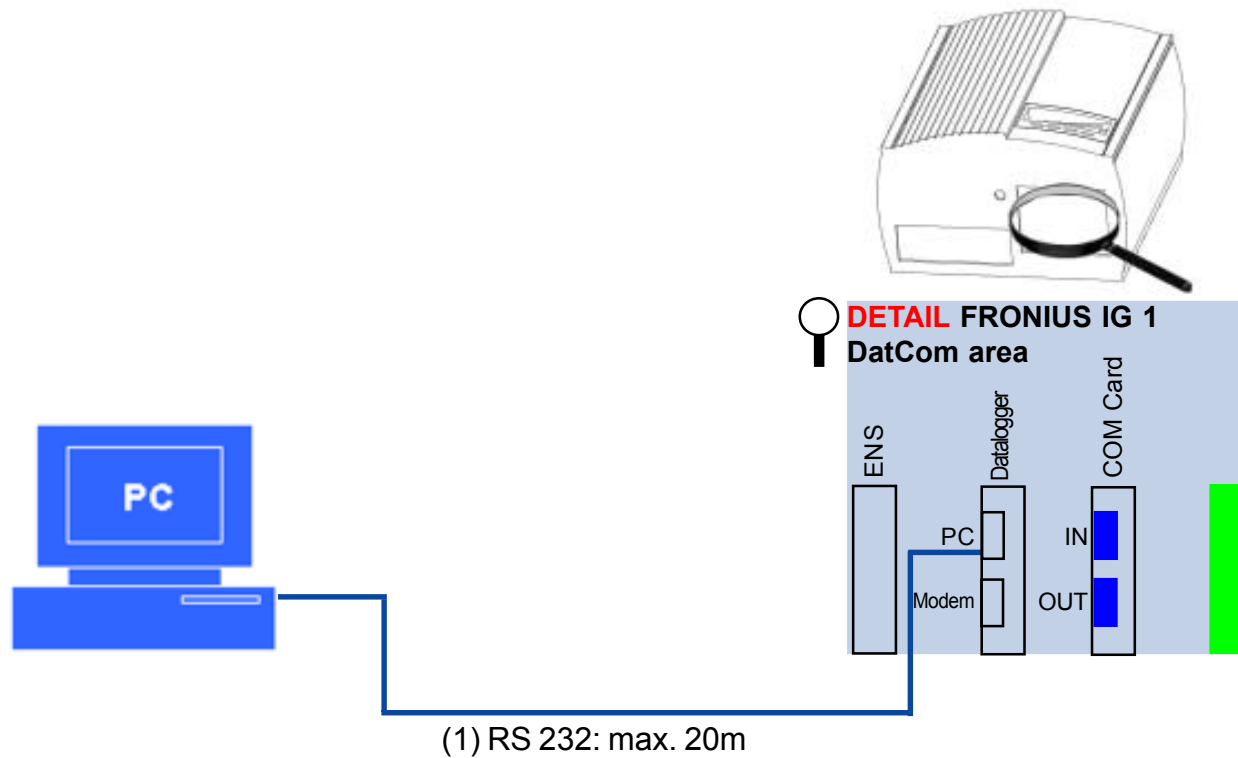
 obligatory position for the termination plug (enclosed to datalogger)

 vacant slot

Information on ENS:

In the FRONIUS IG-series the ENS is designed as a Card. However it has no influence or connection with the **DatCom Cards**, but acts completely independently. The ENS is a country-specific safety device that is automatically integrated in the Fronius works depending on the legal situation in your country.

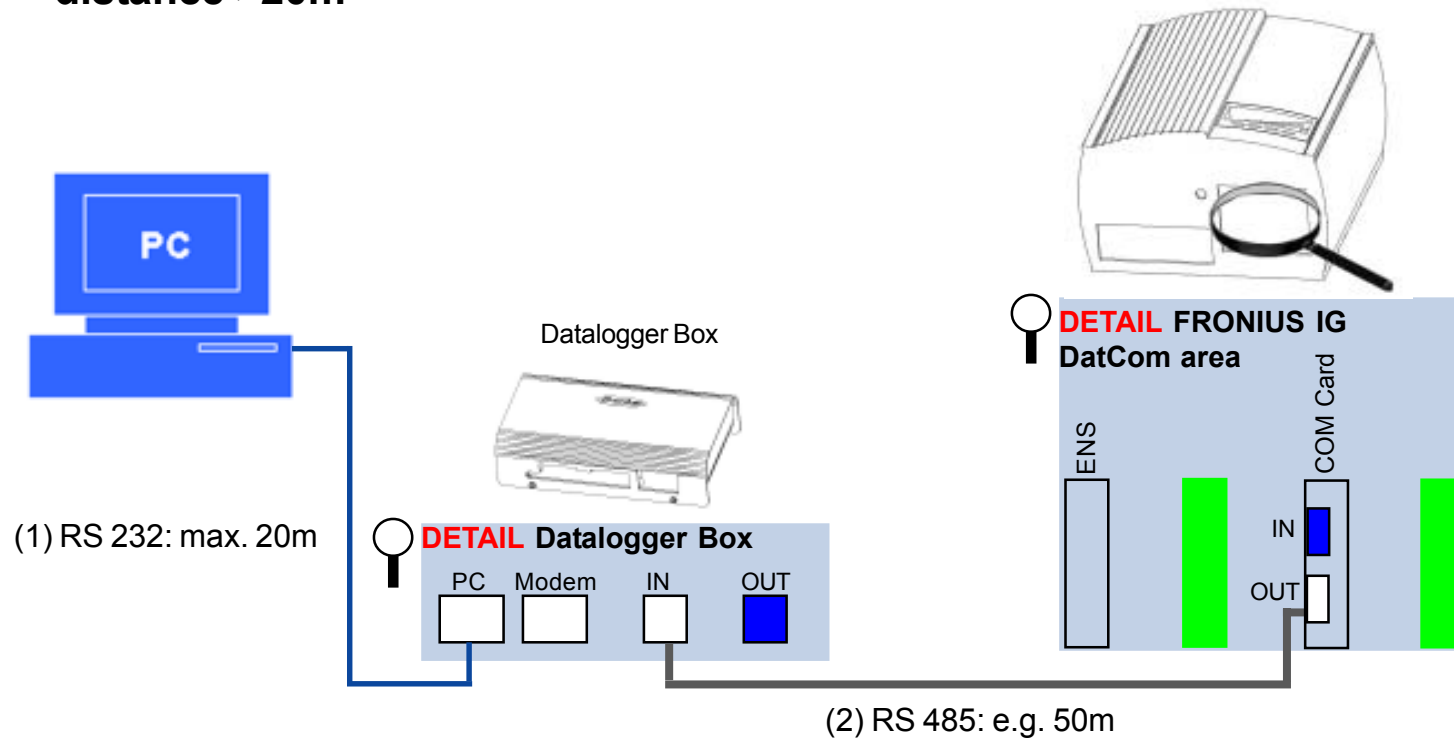
Example 1) 1 FRONIUS IG with direct connection to the PC



You need the following Fronius articles for DatCom example 1:

- Datalogger Card FRONIUS IG (Fronius Art.no. 4,240,002)
- COM Card FRONIUS IG (Fronius Art.no. 4,240,001)
- (1) ATAT-cable (9-pole submin-plug)

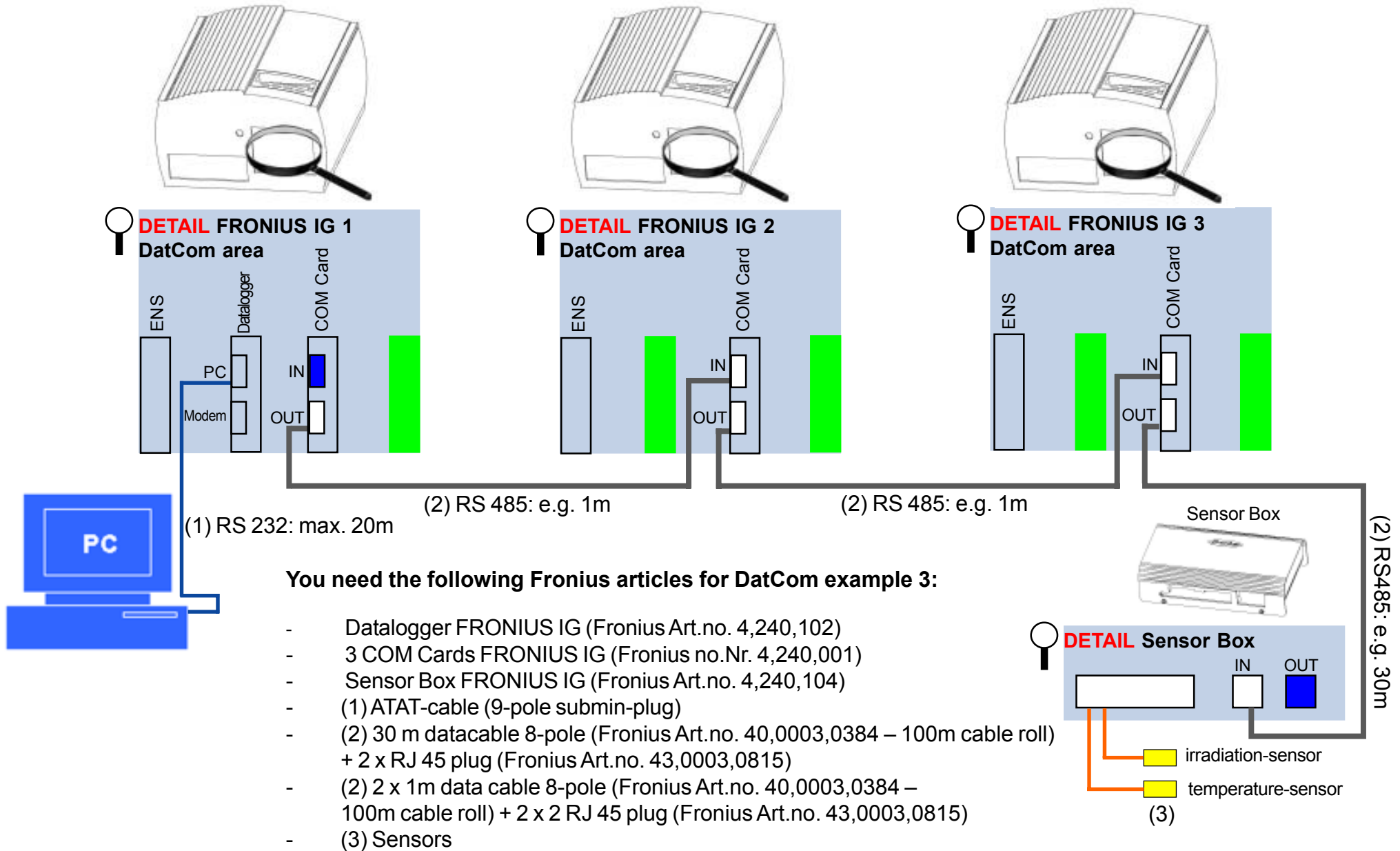
**Example 2) 1 FRONIUS IG with direct connection to the PC
distance >20m**



You need the following Fronius articles for DatCom example 2:

- Datalogger Box FRONIUS IG (Fronius Art.no. 4,240,102)
- COM Card FRONIUS IG (Fronius Art.no. 4,240,001)
- (1) ATAT-cable (9-pole submin-plug)
- (2) 50m datacable 8-pole (Fronius Art.no. 40,0003,0384 – 100m cable roll)
- (2) 2 x RJ 45 plug (Fronius Art.no. 43,0003,0815)

Example 3) 3 FRONIUS IG with direct connection to the PC plus registration of sensor values



DatCom components

COM Card



(1) (2) (3)

connections:

- (1) power supply connection socket
- (2) input data IN
- (3) output data OUT

Termination plugs



These plugs are for termination of the DatCom system. They close the DatCom ring at the first and last component.

Datenlogger Card



(4) (5) (1)

Datenlogger Box



(4) (5) (1) (2)(3)

connections:

- (1) power supply connection socket
- (2) input data IN
- (3) output data OUT
- (4) connection to PC
- (5) connection to Modem

Power supply connection socket

The **COM Card** is responsible for the power supply of all DatCom components.

In special cases (e.g. when data cables are very long or there is only one COM Card to serve many components) the support given by the COM Card may not be enough.

In these cases, a power pack can take over the power supply.

Sensor Card



(4) (1)

Sensor Box



(4) (1) (2)(3)

connections:

- (1) power supply connection socket
- (2) input data IN
- (3) output data OUT
- (4) sensor-area für 6 sensors