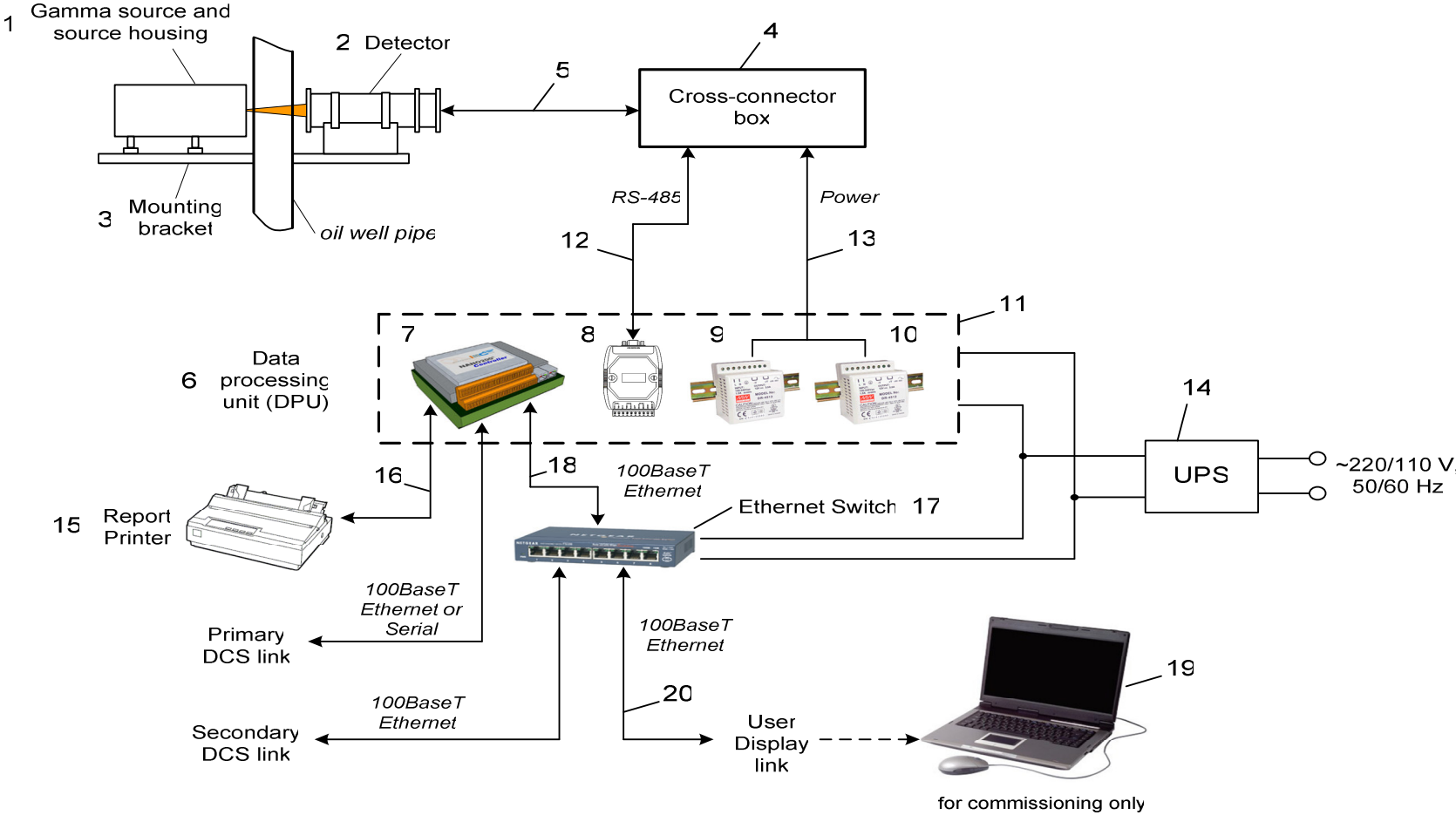


Neftemer Ltd

Typical Neftemer Ltd Multi Phase Flow Meter System Arrangement.



Neftemer Ltd

Specification for Neftemer system components and supply is given in Table 1 below.

№	Designation	Description	Quantity	Supplied by
1	NFT01	Gamma source and source housing	1	NLtd
2	GJRA.467749.002 (NFT02-01)	Gamma radiation detection unit	1	NLtd
3	RDI-2011-02	Mounting bracket	1	NLtd
4	–	Explosion-proof cross-connector box	1	others
5	–	Cable between cross-connector box 4 and detector 2 in spiral wrap hose	1	others
6	GJRA.412160.002 (NFT03-01)	Data processing unit (DPU), comprising:	1	NLtd
7	NANO 200	Programmable Logic Controller	1	NLtd
8	I-7188D/DOS/512	Programmable Logic Controller	1	NLtd
9, 10	DR-45-24	Power Supply Unit	2	NLtd
11	Eta S.P.A. ST4-620	DPU enclosure (400x600x200 mm)	1	NLtd
12	–	Information cable (100 m)	1	others
13	–	Power cable (100 m)	1	others
14	–	Uninterruptible power supply	1	others
15	Epson LQ300	Report printer	1	NLtd
16	–	Report printer cable	1	NLtd
17	Netgear FS108	Ethernet switch	1	NLtd
18	–	Ethernet cable		
19	–	Personal computer (laptop) For commissioning only	1	NLtd
20	–	Ethernet cable	1	NLtd
None		Spare parts and facilities set (scope to be agreed with customer)	1	NLtd
None		Service documentation (scope to be agreed with customer)	1	NLtd

Please note, table 1 designations for supplied by;

NLtd = Neftemer Ltd.,

Other = Customer or customer's contractor.

Note, If required Neftemer Ltd can supply items under the heading “other” on receipt of client detailed specifications.

Neftemer Ltd

Specification for Neftemer system components supplied by customer or customer's contractor is given in Table 2 below.

№	Item	Specification
4	Explosion-proof cross-connector box	Type of explosion protection – at customer's discretion; Dimensions – at customer's discretion; Number of cable glands – 3; Cable diameters – accordingly to specifications of cables 5, 12, 13 from Table 1.
5	Cable between cross-connector box 5 and detector 2 in spiral wrap hose	Recommended cable type – twisted pair; Cable diameter, mm, not more than – 6; Number of strands – 6; Strand diameter, mm, not less than – 0.5; Installation of spiral wrap hose is recommended. Spiral wrap hose parameters: Material – galvanized steel. Internal diameter, mm – 10...15;
12	Information cable	Cable type – twisted pair (Category 5 or 5e or 120 ohm cable for RS-485 applications); Application – outdoor fixed installation; Operating temperature – at customer's discretion; Diameter, mm – 6...12;
13	Power cable	Number of cores – 4; Conductor type – stranded; Conductor material – copper; Voltage rating, V – 50; Core cross-section area, mm ² , not less than – 0.75; Application – outdoor fixed installation; Operating temperature – at customer's discretion; Diameter, mm – 13...18;
14	Uninterruptible power supply	Type (topology) – standby or line-interactive; Output Power Capacity, not less than – 300 Watts / 500 VA; Dimensions – at customer's discretion; Operating temperature, °C – 0...40; Nominal Output Voltage, V – 110 or 220; Nominal Output Frequency, Hz – 50 or 60; Output connector type – IEC 320 C13 or Schuko CEE 7; Number of output connectors, not less than – 2;