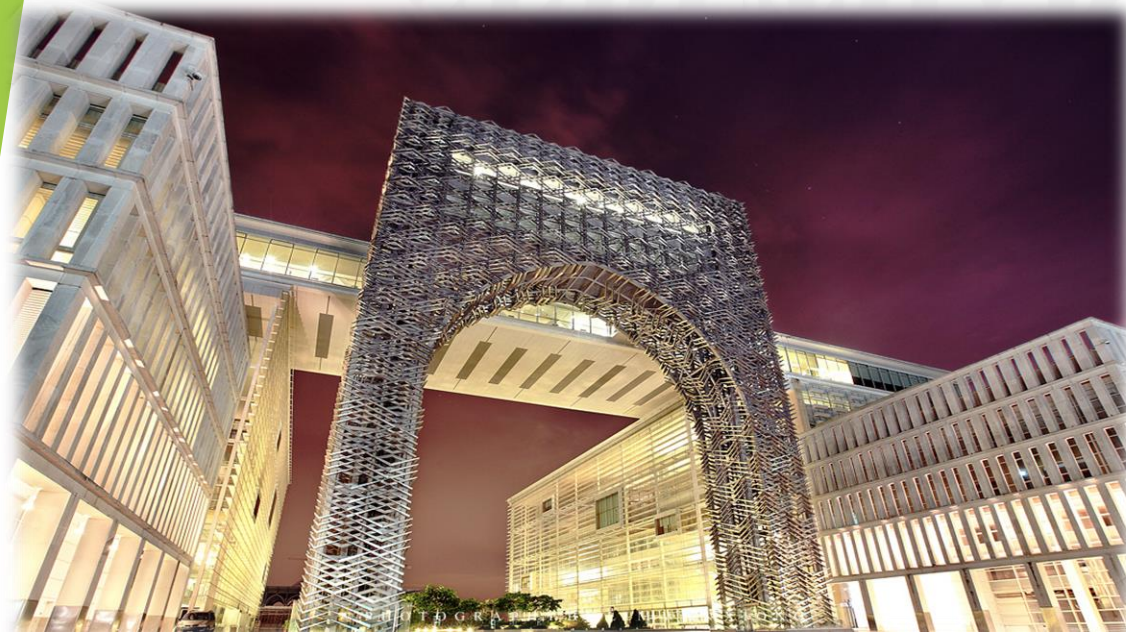




TAKLIMAT SEBUTHARGA

2020/11/17/2021



OLEH :

Bahagian Alam Sekitar ,Tasik Dan Wetland,
Jabatan Perancangan Bandar.

TAJUK SEBUT HARGA

“CADANGAN PELAWAAN PEMBEKALAN GANTIAN LIMA (5) SET COMPRESSOR DAN SATU (1) SET DATA LOGGER BAGI PENGOPERASIAN SISTEM PENGAWASAN KUALITI AIR SECARA TELEMETRI - SCADA UNTUK STESEN PENGAWASAN KUALITI AIR SEDIA ADA TASIK PUTRAJAYA.”

NO.SEBUT HARGA : PPj/SH(S)/JR/27/2022

MAKLUMAT SEBUT HARGA

PEMILIK : PERBADANAN PUTRAJAYA

AGEN PELAKSANA : PERBADANAN PUTRAJAYA

KONTRAKTOR : SEBUT HARGA ADALAH DIPELAWA DARIPADA KONTRAKTOR TEMPATAN YANG MASIH SAH BERDAFTAR DENGAN **KEMENTERIAN KEWANGAN MALAYSIA (KKM/MOF) DI BAWAH KOD BIDANG 100101- (SEMUA PERALATAN SUKATAN/UKURAN) ATAU 060502 - (PERALATAN MAKMAL PENGUKURAN, PENCERAPAN DAN SUKAT) UNTUK MELAKSANAKAN KERJA TERSEBUT DI ATAS.**

TARIKH JUAL DOKUMEN SEBUT HARGA : 4 JULAI 2022 (ISNIN)

TARIKH TUTUP BELI DOKUMEN SEBUT HARGA : 7 JULAI 2022 (KHAMIS)

TARIKH TUTUP SEBUT HARGA : 13 JULAI 2022 (RABU)

PENGEMUKAAN SEBUT HARGA : BAHAGIAN PEROLEHAN & UKUR BAHAN, JABATAN KEWANGAN, ARAS 1, BLOCK C, PERBADANAN PUTRAJAYA, KOMPLEKS PERBADANAN PUTRAJAYA, 24, PERSIARAN PERDANA, PRESINT 3, 62675 WILAYAH PERSEKUTUAN PUTRAJAYA.

HARGA DOKUMEN SEBUT HARGA : RM 50.00 – TUNAI

LATAR BELAKANG PROJEK

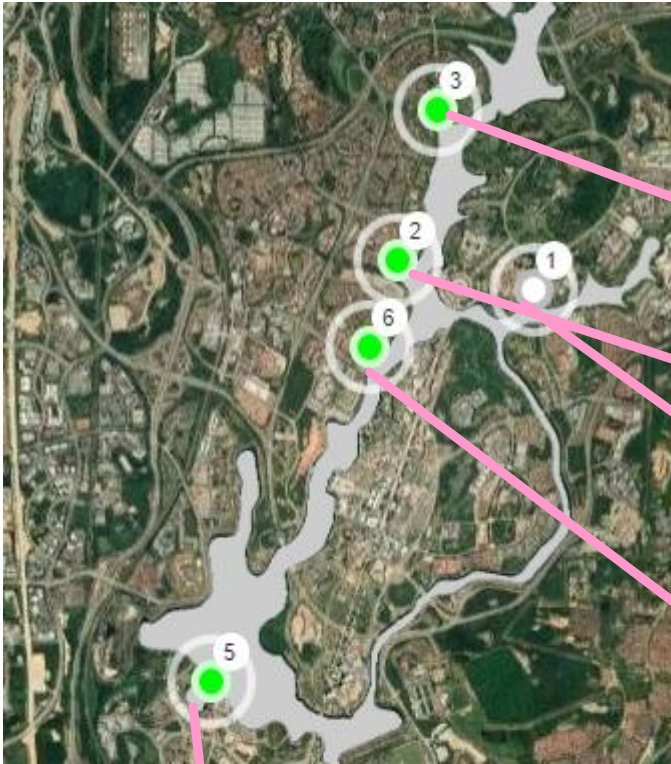


1. Menjalankan program pengawasan kualiti air secara telemetri (SCADA).
2. Mengesan kejadian pencemaran kualiti air dan memantau trend insiden pencemaran tersebut secara berterusan.
3. Membantu tindakan penguatkuasaan ke atas punca punca pencemaran melalui bacaan yang ditunjukkan.
4. Status Kualiti Air Tasik Putrajaya sentiasa berada di tahap Kelas II.

SKOP KERJA

1. Menjalankan kerja-kerja pembekalan gantian **lima (5) set Compressor dan satu (1) set Data Logger** bagi pengoperasian Sistem Pengawasan Kualiti Air Secara Telemetri-Supervisory Control And Data Acquisition (SCADA) Untuk Stesen Pengawasan Kualiti Air Sedia Ada Tasik Putrajaya
2. Tempoh siap kerja **ADALAH 6 BULAN**

LOKASI SISTEM KAWALAN PUNCA PENCEMARAN ALAM SEKITAR (SKPPAS)



3. SKPPAS 03 – OUTLET PRESINT 9, 10 & 11



2. SKPPAS 02 – LAKE VALLEY, PRESINT 8



5. SKPPAS 05 – MARINA, PRESINT 5

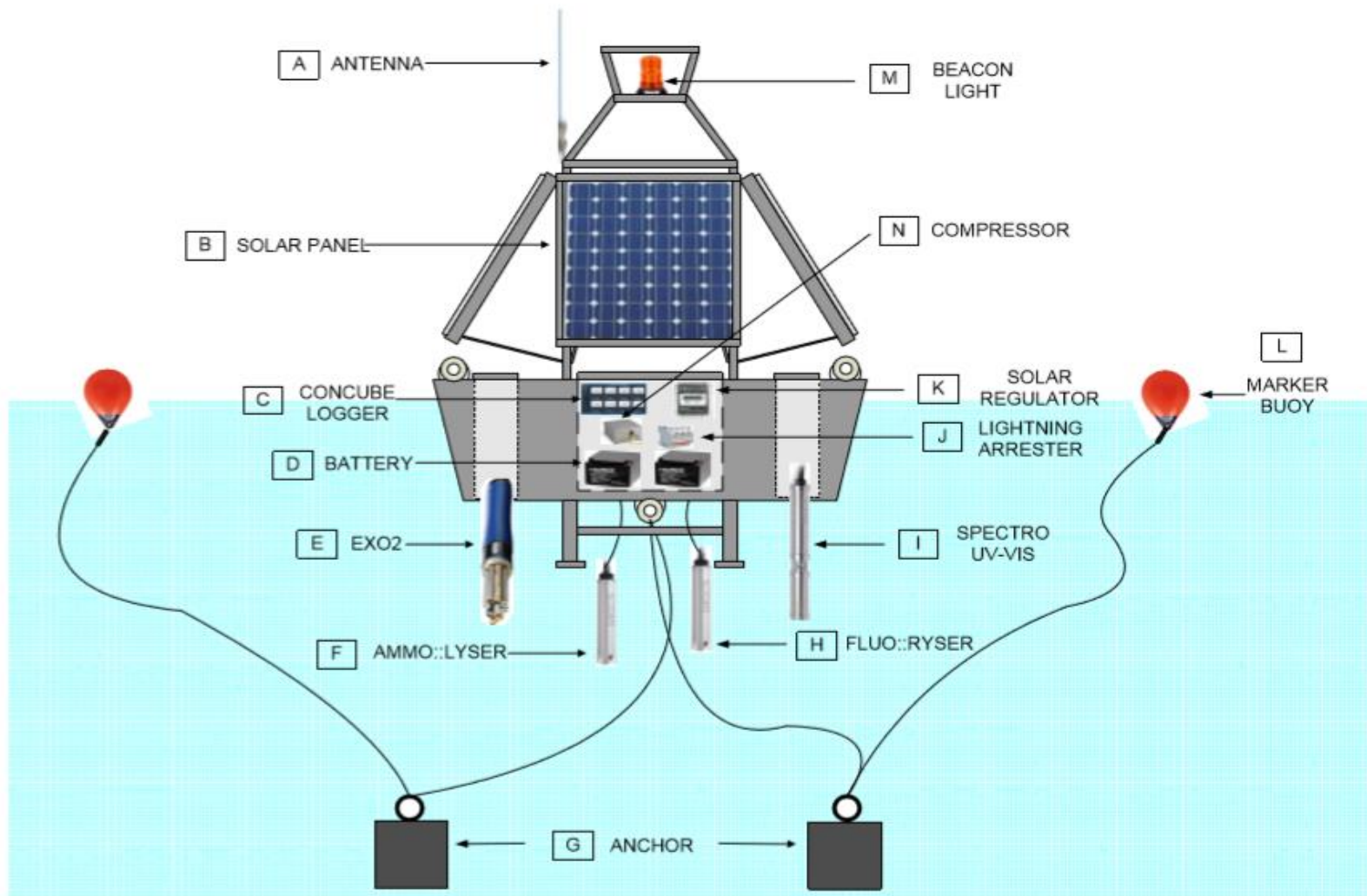


4. SKPPAS 06 – OUTLET@BAZAR8, PRESINT 8



1. SKPPAS 01 – SERI BAKTI, PRESINT 1

AWQMS STATION ILLUSTRATION LAYOUT





Gambar: Compressor sediada di tapak

SPECIFICATIONS OF COMPRESSOR

Berkeupayaan dan mempunyai kelengkapan setara seperti berikut:-

- Removal of fouling compressed air
- Aluminium housing IP65 for wall mounting
- Optional 12 VDC or 230/110 VAC version available
- Railing mounting set available
- Dimensions (width x height x depth) : 218x253x105 mm (estimated)
- Operating pressure : 0....6 bar
- Tank volume : 0.5 (estimated)
- Ingress protection class : IP65
- Power consumption (max) : AC 100W/DC 180 W (15A@12V)
- Power consumption (typical): AC 100W/DC 60W(5.2A@12V)
- Power supply:
 - Type B32-230:230 VAC
 - Type B32-110: 110 VAC
 - Type B32-012: 12 VDC
- Recommended accessories:
 - Cleaning valve
 - Optional 2m power cable (C-31-eu/C-31-us)



Gambar: Data Logger sediada di tapak

SPECIFICATIONS OF DATA LOGGER

Integration Of	1x spectrometer probe and 4x sensors or ISE probes
Display	color-display 9" TFT
Function Indicator	4xLED
Operation Via	integrated touch-screen Ethernet - Browser or VNC WIFI - Browser or VNC USB (keyboard, mouse), 4G(or above) modem
Operating System	Linux
Main Memory	2 GB RAM
Onboard Memory	16 GB
Interface To Spectrometric Probes	M12 RSTS 8Y (IP67), RS485, Ethernet
Interface to Sensors	4xsys plug, RS485
Interface to Third Party Sensors	Modbus RTU/TCP, analog inputs

Network Connection	802.11n a/b/g WIFI 300Mb/s Ethernet LAN 1 Gb/s worldwide 4G HSPA+
Interface to SCADA	Modbus RTU/TCP, Profibus DP (optional), SDI-12 (optional), analog outputs
Data Transfer	via SSH, FTP, TML (XML) and USB stick
Remote Control	via http
Power Supply	D-330-230: 100 ... 240 VAC D-330-024: 10 ... 36 VDC
Power Consumption (Typical)	1.5 W (in sleep mode) 10 W (no analogue ports) 30 W (fully equipped)
Power Consumption (Max.)	20 W (no analogue ports) 60 W (fully equipped)

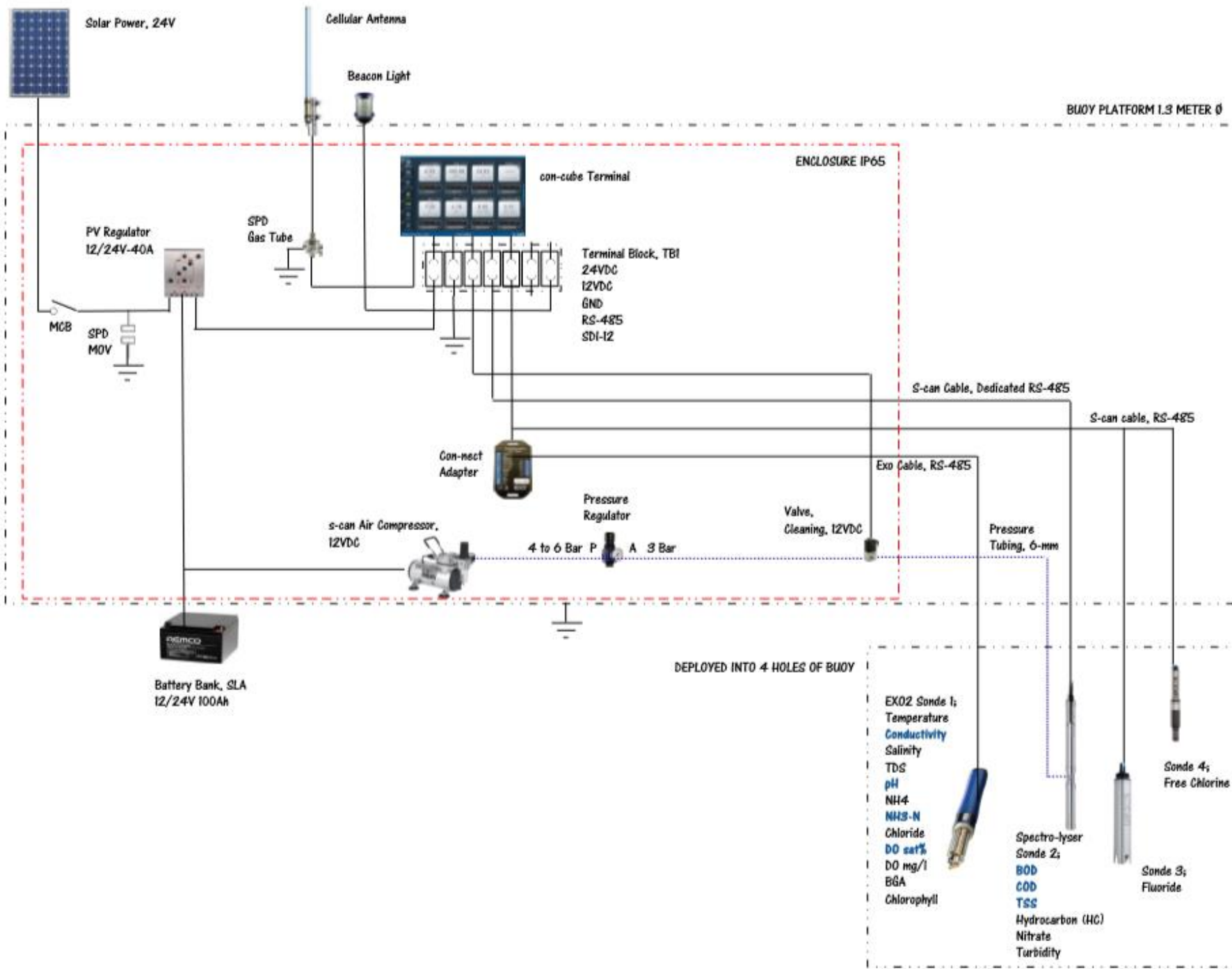
Grounding	<0.5 Ohm to process media
Analog Outputs	up to 8x2 x 0/4-20 mA
Analog Inputs	up to 8x2 x 0/4-20 mA
Outputs for Automatic Cleaning	2
Digital Inputs	up to 8x2 x 14 VDC
Relay Outputs	4 x 2A (500 VAC)
System Error Relay	1x 2A (500 VAC)
Dimensions (Width X Height X Depth)	280 x 209 x 85 mm
Housing Material	aluminium alloy, powder coated
Weight (Min.)	4kg
Operating Temperature	-20 ... 50 °C
Storage Temperature	-20 ... 60 °C
Storage Humidity	5... 90%

Ingress Protection Class	IP65 or above
Conformity - EMC	EN 61326-1
Conformity - Safety	IEC/EN/UL/CSA 61010-1 IEC/EN/UL/CSA 61010-2-201 IEC/EN 60529
Part Number 24V	D-330-024
Part Number 230V	D-330-230
Others	Berkeupayaan dan mempunyai kelengkapan serta keperluan Transfer data via berikut: - M2M Technology (Sim Card)/ High end IOT terminal - Wired - Bateri: 12V/100 Ah - Easily extendable with all pre-install and additional online data software that can integrate with existing SCADA system

Others

- **Highly intuitive use, information visualization & easy operation and easy calibration: time series, optical spectra and all events in clear text**
- **Easily fixed (plug and play) to the station SCADA compartment**
- **Sensor and station management up to 64 parameters**
- **Data Logger/Station management will easy operation with checking SCADA system (Front End & Back End)**

Part number	Article name
C-31-eu	Optional 2 m power cable
C-31-us	Optional 2 m power cable
C-32-MIL	Cable to connect a V2 spectrometer probe to a data logger V3 termin
D-315-3GLX	Worldwide 3D internet connection via Quad-band HSPA (up to 5.7 Mbps/21 Mbps)
D-315-in-mA	2 analogue inputs (input module), provides 2 analogue inputs (4-20mA) for integration of 3rd party readings
D-315-in-relay	2 digital inputs (input module), provides 2 digital IN (5-24V) for integration of 3rd party readings
D-315-out-mA	2 analogue outputs (output module), provides data transfer to PLC systems
D-315-out-Profi-bus	Provides Profibus DPV0 for data transfer to PLC systems
D-315-out-SDI12	SDI 12 (output module), provides SDI 12 for data transfer to PLC systems
D-315-anten-na-pro	External, high range antenna option for data logger, incl. 10 m extension cable
D-315-anten-na-plug	Internal antenna adapter cable and connector, option For data logger
S-11-autosam-pler	moni::tool - auto sampler feature
S-11-basic-PLC	moni::tool - basic PLC functionality (time control, pulsing, custom bits)
S-11-camera	moni::tool - camera input
S-11-data-export	moni::tool - automatic data transfer (via SSH, FTP, TML)
S-11-free-for-mula	moni::tool - configureable mathematic formula
S-11-SMS	moni::tool - SMS notification
S-14-vali	vali::tool – data logger data validation software
S-15-ana	ana::tool – data logger event detection software
F-51	weather shield for data logger terminals
S-20-MVA	Complete license of all moni::tool modules, vali::tool and ana::tool



**Sekian,
Terima Kasih.**