LDS Optical Metrology

Laser measurement project brief

Blank planning worksheet for an engineering enquiry. This is not a product specification, wiring drawing, calibration report or certificate.

Fill and save locally, or print and write. Nothing is submitted automatically. Agree an NDA and transfer method before sending confidential information.

Project and contact reference

Company/project reference and the reply contact you choose to provide.

Quantity to measure and required result

Point height, total thickness, coating-only change, profile/gap or travel distance; datum and units.

Requested family and existing equipment

LDS inquiry reference if known; original head, controller, gateway and cable part numbers.

Nearest/farthest distance and measuring span

State both limits and units, mounting space and optical clearance; include any approach below 1 m.

Target surface, layers and temperatures

Material/finish, opaque or transparent stack, hot target versus sensor ambient, light/dust/steam.

Motion, acquisition and synchronization

Line speed, flutter/tilt, fresh-reading rate, trigger/encoder, exposure/filtering and latency budget.

PLC or PC interface and result format

Controller model; exact analog/digital protocol; units, status flags, timestamps and data-loss behavior.

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Mechanical drawing and installation review

Drawing revision, mounting datum, connector/cable access, frame, reflector and protective housing.

Electrical and communication review

Supply, model-specific pin assignment, analog load/scaling, register/process map and firmware revision.

Documents to request

STEP/drawing; clearance; M12 pinout; analog/Modbus map; fieldbus/SDK; calibration; safety/environment.

Reference artifact and calibration scope

Reference identity/uncertainty, points/span, fixture and environmental conditions, report identity.

Acceptance method and decision rule

Tolerance and uncertainty treatment, repeat/reload tests, difficult surfaces and invalid-data coverage.

Supply scope, quantity and destination

Heads/systems, frame/controller responsibility, sample/annual quantities, country and desired schedule.

Open questions and confidentiality

Unconfirmed requirements and document revisions; NDA/transfer needs. Avoid confidential details until agreed.